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DEPARTMENT OF THE ARMY

BALTIMORE DISTRICT, CORPS OF ENGINEERS
P.O. BOX 1715
BALTIMORE, MARYLAND 21203

NABEN-R

30 September 1974

SUBJECT: History of Radio Communications--Baltimore District

All Baltimore District Radio Communicators and Operators

Inclosed for your information is a copy of "A History of Radio Communications in the Baltimore District."

It is interesting to note that the first use of radio communications in the District is within the memory of present employees, but it must be recognized that within a few years there will be no one in our office who can personally recall the first use of radio to transmit our messages. It is hoped that this publication will not only prove interesting to present personnel—both employees and volunteers—but will also record for future reference the events and personalities of our generation who were associated with the radio system.

In preparing the publication, no doubt a few people were overlooked who have contributed to our radio networks. If so, we regret the omission. And, no doubt, the text may contain some errors. In either case we invite readers to send in additional information or corrections for use in a supplement, which may be issued at some future date. Address the District Office, attention Radio Station Director. Also, any requests for additional copies of this publication should be sent to the same address.

FOR THE DISTRICT ENGINEER:

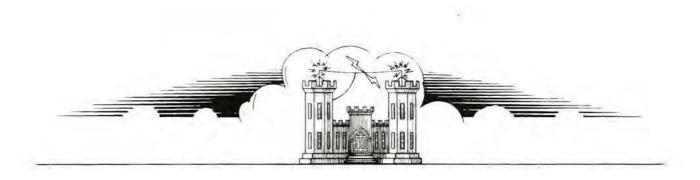
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LTC, Corps of Engineers Deputy District Engineer

for Civil Works

A HISTORY OF RADIO COMMUNICATIONS IN THE

BALTIMORE DISTRICT, CORPS OF ENGINEERS
UNITED STATES ARMY



DEPARTMENT OF THE ARMY
Baltimore District, Corps of Engineers
Baltimore, Maryland 21203

PREFACE

This history of radio communications in the Baltimore District, Corps of Engineers, was prepared under authority of Engineer Regulation 870-1-1, 1 September 1971, and District Regulation 870-1-1, 12 March 1974. It endeavors to record the beginning, the growth, and the use of this means of communications among District personnel and to show how in a period of 26 years the system expanded from two small stations of limited range to a complex assortment of more than 250 fixed, portable, mobile, and ship stations covering the entire District. It also gives credit to a number of private individuals and organizations that have contributed to the District's emergency communications system.

This publication is issued in partial fulfillment of the task assigned to the District Historical Committee to record and preserve the District History. Members of the committee, appointed by the District Engineer by District Order No. 78, 11 October 1973 are:

Michael J. Lawrence, Chairman

Robert J. Blake Joseph E. Book David J. Caruso John S. Harlow Gary A. Loew
Jean Eicholtz Phipps
Willard J. Prentice
Claggett M. Wheeler, Jr.

The information in the text is believed to be current at press time, 15 August 1974. Subsequent changes in personnel, assignments, jurisdictions, authorizations, or equipment are not reflected herein.

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A HISTORY OF RADIO COMMUNICATIONS IN THE BALTIMORE DISTRICT, CORPS OF ENGINEERS

UNITED STATES ARMY

A. THE BEGINNINGS

Prior to World War II the Baltimore District had no radio facilities. Available records indicate the first authorized use of radio by the District was in the Codorus Creek watershed near York, Pennsylvania, where a small network of three automatic transmitting stations furnished coded water-level readings in the creek to a receiving station at Indian Rock Dam. This system was authorized in July 1941 and operated for several years until the equipment became unserviceable, and it was then discontinued.

Voice communication between the District Office and field offices or personnel at that time was entirely by telephone--there was no radio backup. While service was reasonably good during normal weather conditions, long distance lines, especially in rural areas, sometimes became inoperative due to wind or sleet storms.

B. THE S.E.N.

During the great Susquehanna River flood of 1936, telephone facilities were flooded out in most localities, and amateur radio operators, though unorganized at the time, provided valuable assistance in handling emergency messages. Following the flood, a number of amateur operators, profiting by the flood experience, organized a radio network—known as the Susquehanna Emergency Net—and conducted regular drills or training sessions until amateur licenses were suspended as a security measure during World War II.

Following the war, with the return of amateur privileges, the Susquehanna Emergency Net, or S.E.N., as it came to be known, was reorganized under the strong leadership of Charles G. Landis, W3UA, of Safe Harbor, Pennsylvania. Mr. Landis was encouraged, if not directed, in this effort by his employer, the Safe Harbor Water Power Corporation, as the company was vitally interested in having a means of getting upstream river stages needed to determine the operation of its hydroelectric plant on the lower Susquehanna.

The first regular drill of the reorganized net was in February 1947. The net, consisting of 25 or 30 stations at the most, held regular Sunday morning drills. Each operator obtained the local river-stage reading and such local weather data as he could obtain and transmitted them to the

net-control station, W3UA, at Safe Harbor. The stations operated on 3910 kilohertz (or kilocycles per second, the term then used). AM voice emission was normal, although occasionally an operator gave his report in CW (International Morse code).

C. DISTRICT PARTICIPATION

At that time, the District had no direct connection with the S.E.N., but a local amateur, Mr. William E. Cooke, Jr., W3GBB (later K3CN) became a member of the net. He then copied the reports and made them available to the District Office.

Another Baltimore amateur operator who participated in S.E.N. activities was George M. Hannah, W3AFR, a C. & P. Telephone Company employee. In March 1948 he arranged a phone patch so that Lt. Colonel Jack P. Campbell, District Executive Officer, could speak from his home through W3AFR to the entire net during a Sunday morning drill. This form of radio-telephone hookup was not legally recognized at the time and did not get Public Service Commission approval until some 20 years later.

Other District military personnel who gave encouragement to the net were Colonel A. C. Welling, District Engineer, who attended and spoke before an S.E.N. conference in Safe Harbor in October 1948, and Major Edward A. Ardery, Assistant District Engineer, who spoke to a similar gathering in 1951.

D. SURPLUS EQUIPMENT

With the demobilization of the Armed Forces following World War II, the Corps found itself with large stocks of excess communications equipment of all types and decided to make some of this available to the Districts for civil works functions. Letters of inquiry were sent to all Districts about 1946 listing general types of equipment available and asking the Districts to indicate their requirements.

Mr. Edward W. Digges, then Chief of the Civil Works Division, appointed Willard J. Prentice, a civil engineer in the Flood Control Branch, to coordinate the District's requirements. After some study, OCE (Office, Chief of Engineers, in Washington) was informed that the District had no need at the time for FM equipment but could use AM equipment to communicate with the flood control dams in Pennsylvania and New York State.

After months of delay and numerous phone calls to expedite action, the District finally received its initial allotment of equipment—two type SCR-284A voice receiver-transmitter sets with a rated power output of 8 watts, complete with hand generators. It was a truly modest

start for the District in the field of radio communications!

E. THE FIRST STATIONS

It was decided to establish the first stations at Whitney Point Dam, New York, and Indian Rock Dam, Pennsylvania. Application for call signs and frequency assignment was made, and in January 1948 the authorization was issued by the Army's Chief Signal Officer assigning the call signs AETA and AETB to the two stations, respectively, and a single frequency, 5437.5 kHz.

OCE's gift of radio equipment to the District was not accompanied by any allotment of funds for installation or maintenance, and, at the time, the District administrators took a dim view of spending Government funds for something that to them seemed as nonessential as radio communications.

The damtenders at the proposed station sites were totally inexperienced in radio work and not qualified to make the necessary installations. Without funds, Mr. Prentice then turned to the S.E.N. for assistance. The S.E.N. operators nearest the two proposed sites agreed to make the installations and train the damtenders to operate the equipment—all gratis.

Mr. Ferris W. Wolfinger, W2CNA, Binghamton, made the installation at Whitney Point Dam and trained Earle Belknap, damtender, to operate the equipment.

Mr. Nelson K. Stover, W3BBV, York, made the installations at Indian Rock Dam and trained David R. Young, damtender, to operate.

Since the District Office as yet had no station, it was still necessary to depend on the S.E.N. for long distance communications. The two stations at the dams merely transmitted their reports (cross channel) to the nearest S.E.N. station.

The initial scheduled participation by the two District stations under this arrangement took place in connection with the regular S.E.N. drill on Sunday morning, 14 March 1948, and this date therefore becomes the birth-date of voice communication by radio in the Baltimore District.

F. FORT MCHENRY

About this time some additional surplus Army equipment became available, and plans were made to establish a District station in the Baltimore area. The Corps reservation at Ft. McHenry was selected as the site as it was felt that from here the station could serve a dual function—it could act as a coastal station for communication with the District boats

and, secondly, it could act as the District office station for communication with the flood control dams.

Authorization was obtained in March 1948 to establish the Fort McHenry station using the call sign AETF and operate AM on 2350 kHz for marine use and 5437.5 kHz for emergency flood control communications. At the same time, authorizations were issued for three District boats as follows:

Call sign	Type and name of boat		
AEGA	Survey boat HARWICH		
AEGB	Patrol boat NANTICOKE		
AEGC	Patrol boat POCOMOKE		

Fortunately, this time the District did not have to look for an amateur to make free installations. The Army Signal Corps had maintenance facilities in the Baltimore area and furnished technicians to make the installations. The equipment for the base station consisted of a 300-watt BC-610 transmitter and a BC-342 receiver. The installation was completed and the base station went into operation on 11 April 1948. The station log shows that at 1100 hours the base station called AEGA, and the notation is "Logan to Printz." Roy Logan was the engineer in charge of the Fort McHenry office; and Henry Printz, a surveyman, was the radio operator on the boat.

The first use of the Fort McHenry station in an S.E.N. drill is recorded on 9 May 1948 with the notation "Prentice to Cooke," W3GBB. On 13 February 1949 the log has the notation "Harned to Belknap," AETA. This refers to Edward J. Harned, Chief of the District's Hydrology Unit, and Earle Belknap, damtender at Whitney Point Dam, and is perhaps the first time the Hydrology Unit used the District radio facilities to talk directly to the damtenders.

G. MORE BC-610's

The BC-610 transmitter at Fort McHnery soon proved to be a stable, powerful, dependable piece of gear, and it was decided that the District should get more of these units, first to replace the 8-watt units at Whitney Point and Indian Rock Dams and then to establish new stations at the other dams and flood control field offices. Efforts to obtain more BC-610's directly from Army surplus proved unsuccessful at the moment, but private individuals seemed to be able to buy them from surplus dealers. Accordingly, the District issued purchase orders to furnish and install used BC-610 transmitters and suitable receivers at several locations. George Hannah, W3AFR, the local amateur radio operator mentioned above, agreed to make three of these installations at a very moderate cost. Additional units were obtained from other sources. Stations at East Sidney and Almond Dams were authorized in March 1949, and BC-610 transmitters were installed in January 1950. These were heavy units to handle, and each time

George Hannah left the District Office with about 1,600 pounds of radio equipment in the back seat of his Hudson sedan, it seemed doubtful that the springs would hold up for the long trip to New York State over roads which were a far cry from present standards.

H. A DISTRICT OFFICE STATION

Meantime, while the Fort McHenry station proved very satisfactory for communication with the boats, it was equally inconvenient for flood control use. Accordingly, authorization was requested for a separate station to be located at the Baltimore District Office in the 2300 block of Maryland Avenue. Authorization for a 50-watt station with the call sign AEIL was granted in May 1949. The initial installation was not very satisfactory. Later a BC-610 transmitter, surplused from a Government installation at Goose Bay, Labrador, was obtained. The power authorization was increased, and the District Office then had a radio station that served well for a number of years. Later (1953) a new Johnson Viking II AM transmitter was obtained at a cost of \$343 for back-up and increased flexibility.

I. WASHINGTON AQUEDUCT

In June 1949 the Chief Signal Officer authorized the Washington Aqueduct to establish a VHF base station with 50 watts power and install 20 mobile units. This system, still in operation, came under Baltimore District jurisdiction with the abolition of the Washington District in 1961.

J. NEW CALL SIGNS

Effective 1 February 1950 a new system of call signs went into effect for all Corps land installations. Ship stations were to retain their four-letter calls. Each Division was given a distinctive three-letter call, and Districts within that Division were assigned the same three letter call with appropriate numerals added, thus:

Call sign	Location	
WUB	North Atlantic Division Office	
WUB2	New York District Office	
WUB 3	Philadelphia District Office	
WUB4	Baltimore District Office	
WUB41	Fort McHenry	
WUB42	Indian Rock Dam	
WUB5	Norfolk District Office	

In general this system has been followed ever since, except that a few Baltimore stations which, for reasons not fully understood, were assigned

WUB6+ calls. The above system applies to fixed land stations only. Mobile and portable stations are given the call letters WUM followed by 4 digits, which have no significance as to location or type of station.

K. ADDITIONAL STATIONS

As additional flood control dams were started, more stations were added to the District flood control network. Usually these stations were established during the construction phase of the project, with the equipment located in the construction field office. When the project was completed, the station was moved to the damtender's office. Usually the authorization for such stations was routine. George B. Stevenson Dam, however, presented a special problem. The dam is owned by the Commonwealth of Pennsylvania, but under Congressional law must be operated for flood control in conjunction with the Corps dams in the West Branch Susquehanna River Basin. Hence, communication with the Baltimore District office is essential. But when the District applied for a radio authorization, the Signal Corps said, in effect, "No, this is not an Army installation. The authorization will have to come from the Federal Communications Commission."

Application was then made to the FCC, and the call sign KGJ90 was issued in May 1956. However, when renewal was requested in 1960, the decision was reversed. It was declared part of the Corps net, and given the call sign WUB403.

L. MARS

While the District was engaged in building up its own emergency communications network, it did not sever connections with the S.E.N. Even after the District had a dozen or so fixed stations at various dams and field offices, there were many flood-prone areas with no nearby Corps station. Hence it was felt desirable to continue to work with the S.E.N. to provide communications to areas which could not otherwise be reached by radio.

By 1951 many of the S.E.N. members had joined MARS (the Military Affiliate Radio System), and Charles Landis, the S.E.N. organizer, obtained approval from the MARS Director at Fort George G. Meade to conduct S.E.N. drills on one of the MARS frequencies (4025 kHz), just outside the amateur band. This had the advantage of using a supposedly clear channel as opposed to the crowded 3910-kHz channel in the 75-meter amateur band.

Another advantage of the change to a MARS frequency was that it permitted the Corps stations to become S.E.N. members and carry on

direct communications with any of the S.E.N. stations, which, it was felt, might prove beneficial in an emergency. This was possible because unlike the 75-meter band, where only licensed amateur operators could participate, MARS membership was open not only to licensed amateur operators but to properly licensed Government stations operated by Government personnel, either military or civilian. The station itself, however, first had to be licensed by the F.C.C. (Federal Communications Commission) as a class 602 station, later called a military recreation station. Once the license was obtained, the District could apply to the Chief Signal Officer of the Army (later the Assistant Chief of Staff for Communications - Electronics) for a MARS station license. The regular station operators—damtenders or District Office personnel—could then participate in the MARS nets, including the S.E.N.

M. K3WAZ

When this licensing procedure was first started in the District, the rules were interpreted to mean that the District Engineer would personally have to make application for the F.C.C. licenses. This procedure was followed on the early applications. Hence we find that the call sign K3WAZ was first issued to the District Office station in 1951 with Colonel Reginald Whitaker, District Engineer, as the licensee. Similarly the Indian Rock Dam station was licensed as K3WDB in January 1957 with Colonel Stephen Elliott Smith as licensee. It soon became evident that this system would create considerable paper work in reapplying for all District licenses with each change in District Engineers. Further investigation of the rules revealed that a civilian custodian or director could be appointed for each station, and the license could be issued in his name. Accordingly, in May 1957 Willard J. Prentice was appointed District Radio Station Director and custodian of the District Office station, and each head damtender became the custodian of his respective station.

Where a station is licensed as a MARS station, it is assigned a call based on the previously assigned FCC call sign. Under this procedure only the letters preceding the numeral are changed; "W" becomes "A," "K" becomes "AA," "WA" becomes "AD," and "WB" becomes "AL." Thus the District Office station became AA3WAZ when used on a MARS frequency. The call sign K3WAZ was still valid but could be used only in the amateur bands and only by a licensed operator. Among the licensed employees who operated the District station were Richard A. Wilkinson, K3DVR, first licensed in 1958 and who left the District in 1966, Joseph I. Hemler, K3VQO, who was licensed before coming to the District in 1967, and the station director, Willard J. Prentice, W3VBM, first licensed in 1952. The present equipment in use at K3WAZ is a Drake TR-4 transceiver that operates on the 10- thru 80-meter amateur bands plus the MARS frequencies.

N. IMPROVING THE SYSTEM

With the development of improved communications equipment in the late 50's, there was a feeling in the District Office that we should

discard our World War II surplus AM equipment and get something better for the flood control net, a system that would be less affected by atmospheric conditions. This was at a time when FM equipment was being promoted as the answer to all problems—static free, and almost 100 percent dependable. The General Electric Company agreed to make a study of District requirements, and developed a plan for a backbone system extending up the Susquehanna with numerous repeaters required to give complete coverage of the area.

Mr. Prentice, the District's radio station director, felt that such a system would be very expensive to maintain, and the failure of one key repeater could make the whole system inoperative. Instead, he recommended that the AM system be retained and the old equipment replaced with new single sideband equipment, which was just then becoming readily available.

The matter was referred to OCE for guidance, but at the time it seemed that OCE had no one qualified or willing to give the District definite advice. Instead we were told to make additional studies. The matter dragged on for a couple of years until Mr. Carleton H. Gray, a qualified communications engineer, was transferred from Omaha to OCE. In May 1962 he made an inspection of the Baltimore District sites, determined that single sideband equipment was best suited to our needs, and assisted in writing specifications for the equipment. He also arranged for the District to get additional frequencies assigned so that, if interference developed on one frequency, the net could operate on another frequency.

O. THE WESTREX FIASCO

An invitation for bids on the new equipment for 14 fixed stations and 3 mobile units was issued in 1962, and, after considerable delay due to rejection of initial bids and readvertising, an award for \$76,828 was finally made in April 1963 to the low bidder, the Westrex Company, with a plant at College Park, Maryland. The company fulfilled the contract, but about that time the firm was taken over by Litton Industries, the plant was closed, and the communications equipment line discontinued. Thus the District was faced from the beginning with the problem of maintaining equipment for which parts were not readily available. The equipment furnished under the contract, however, was reasonably good, maintenance was not excessive for several years, and communications were greatly improved. This equipment was kept in use until 1972, when it was replaced by the new lighter, more compact, solid state, single sideband equipment.

P. THE VHF NETWORK

Mr. Gray's next step in improving Baltimore District communications was in the marine area. Due to international agreements, all Districts

were under pressure to stop using the 2-MHz (megahertz) AM band for normal marine communications. The District Operations Division, however, was reluctant to give up the AM equipment because it provided excellent long distance coverage on Chesapeake Bay. About this same time Mr. Gray was given an assignment in his own office to provide communications for dispatching OCE cars in the Washington area. He thereupon developed a plan, in conjunction with Motorola representatives, to install a VHF (very high frequency) repeater system that would provide communications among OCE, the District Office, several field offices. District boats on Chesapeake Bay and the Potomac, and District and OCE vehicles in the Baltimore-Washington area. He visited the District Office, "sold" his plan to the District Operations Division, and the equipment was ordered from Motorola under an existing Nation-wide Air Force contract. The system became operative in October 1970. With the completion of this system, the District now, for the first time, had reasonably good radio coverage--VHF in the Baltimore-Washington-Chesapeake Bay area, and single sideband HF to more distant locations.

Q. OTHER DISTRICT FACILITIES

There are other localized systems in the District which cannot be fully described in a brief article. The area offices at Fort Knox, Kentucky, and at Wright-Patterson Airfield, Ohio, each have VHF base stations for communications with their vehicles.

At Raystown Lake near Huntingdon, Pennsylvania, the District's largest recreational area, there is also a VHF system covering the entire park. Mr. Tom Carr, Carl Gray's successor in OCE, visited the area in 1973 and helped lay out the system.

A similar system is in operation at Tioga, Pennsylvania, where the nearby Tioga-Hammond and Cowanesque Dams are under construction. The Bloomington Lake project on the Maryland-West Virginia border likewise has a VHF system for local communications as well as a HF station for reaching the District Office.

R. ADMINISTRATION

Unlike most Districts where the administration of the District's radio facilities is an Operations Division function, in the Baltimore District the planning, procurement, licensing, reporting, and maintenance of the radio stations and equipment have been Engineering Division responsibilities except that the Washington Aqueduct and some of the stations on military posts arrange for their own maintenance.

Operators for the District Office station in the flood control net have been assigned from the Engineering Division, on a rotating basis,

largely from the Hydrology Unit, since that unit is responsible for control of the outlet works at the District lakes and dams, including George B. Stevenson Dam, as mentioned above, and Savage River Dam, operated by the Upper Potomac River Commission, a Maryland State agency. Regular net schedules are held each work-day morning, and additional schedules are arranged during emergency periods. Once a week WUB4 participates in a Division-wide net in which the North Atlantic Division station WUB and all District office stations take part.

The VHF network has no regular schedules. It is used as required; the Operations Division, communicating with District boats and vehicles, is the principal user in the District Office.

S. MAINTENANCE

Maintenance of equipment, in the early years, was performed on an individual basis, usually by purchase order to a technician in the area of the station. With the shift to more sophisticated equipment, it became increasingly difficult to find qualified technicians willing to service the equipment. Accordingly in 1971, Mr. Isaac Feiges, an electronics technician, was hired as a full-time employee to service the District's HF sideband equipment. The VHF FM equipment is largely maintained by General Electric and Motorola under existing GSA (General Services Administration) contracts.

T. EMERGENCY OPERATION

Throughout the years, the District's radio facilities have performed well during many emergencies, some minor, some major. One of the first emergencies was the November 1950 wind and sleet storm in the Juniata River watershed when telephone service was largely inoperative, and the radio was the only means of communication. During the hurricane floods of August 1955, when Scranton, Pennsylvania, was badly damaged, extensive use was made of the radio facilities. In the coastal storm of March 1962, when many buildings in Ocean City, Maryland, were destroyed, the District Office station joined the Maryland Emergency Phone Net, an amateur network. to keep in touch with conditions on the Eastern Shore. More recently, in tropical storm Agnes in June 1972, the District was in almost constant communication with the flood control dams by radio during the critical period, and the VHF system proved useful in the Baltimore-Washington-Alexandria area. During the storm the flood control reservoirs at Arkport, Foster Joseph Sayers, and Indian Rock Dams exceeded their design capacities for the first time with resulting spillway flows, and the pool behind Almond Dam came within about one foot of reaching spillway crest.

U. EXHIBITS

On the ensuing pages are numerous photographs and other exhibits depicting District radio facilities and personnel.

TAB A

ABBREVIATIONS

ABBREVIATIONS

```
A-1 OP, member of a club of outstanding radio operators
AFB, Air Force Base
AM, amplitude modulation
ANT, antenna
APO, Army post office
ARRL, The American Radio Relay League; an organization of radio amateurs
BG, brigadier general
CBS, Columbia Broadcasting System
CD, civil defense
Col., colonel
CW, continuous wave; International Morse code
DX, distance; foreign countries
DXCC, DX Century Club; membership based on radio contact with at least 100
    countries
EOP, emergency operations planner
FCC, Federal Communications Commission
FM, frequency modulation
FONE, voice communications (as opposed to code)
FREQ, frequency (measured in Hz)
G.m.t., Greenwich mean time
GSA, General Services Administration
HF, high frequency; 3 to 30 MHz
Hz, hertz (cycles per second)
INP, input power (in watts)
kc/sec, kilocycles per second (obsolete)
kHz, kilohertz (same as kc/sec)
LSB, lower sideband
LTC, lieutenant colonel
MARS, Military Affiliate Radio System
Mc/sec, megacycles per second (obsolete)
MEPN, Maryland Emergency Phone Net
MHz, Megahertz (same as Mc/sec)
NBC, National Broadcasting Company
NCS, net control station
NFFE, National Federation of Federal Employees
NSA, National Security Administration
NWS, National Weather Service
OCE, Office, Chief of Engineers, Washington, D. C.
OM, old man; husband
OT, old timer
OTC, Old Timer's Club; to be eligible must have been licensed 20 or
    more years ago
PEP, peak-envelope power
PFC, private first class
```

PSE, please

ABBREVIATIONS (cont'd)

Q, Eastern daylight time QCWA, Quarter Century Wireless Association; membership requires 25 years of radio activity QSL, an acknowledgement QSO, a radio communication QST, calling all stations; also a radio magazine published by ARRL QTH, location RACES, Radio Amateur Civil Emergency Service RCC, Rag Chewers Club (qualify by half hour conversation) RCVR, a radio receiver RST, readability, signal strength, and tone; the essential elements of a signal report S.E.N., Susquehanna Emergency Net Sgt., sergeant SIG, signature; signal Sig bn, signal battalion SSB, single sideband TNX, thanks UR, your USB, upper sideband USAFR, United States Air Force Reserve VFO, variable-frequency oscillator VHF, very high frequency; 30 to 300 MHz W, watt WAC, worked all continents; a certificate testifying the operator has had radio contact with all continents WAS, worked all States; a certificate testifying the operator has had radio contact with all 50 States WAZ, worked all zones; a certificate testifying the operator has had radio contact with all 40 radio zones covering entire world wkd, worked; i.e., has had 2-way radio contact with WWI, World War I WWII, World War II XMTR, transmitter XYL, ex-young lady; wife YL, young lady Z, Zulu time, Greenwich mean time 73 or 73's, best regards

TAB B

PHOTOGRAPHS

THE CHESAPEAKE AND MARINE RADIO

No one can say for certain who was the first European to visit Chesapeake Bay. It is known that the Spaniards had explored the area as early as 1573, and the English in 1585 named the bay "Chesupioc" after an Indian tribe by that name. Through the years the spelling has been changed to its present form.

On 20 December 1606 an expedition organized by the Virginia Company of London set sail from London with three ships, the largest being the SUSAN CONSTANT, a vessel of 100 tons, measuring 79 feet from bow to stern. After a stop in the West Indies, the expedition entered "the Bay of Chesupioc" 26 April 1607, and in May of that year began building a fort at Jamestown.



Replica of the SUSAN CONSTANT

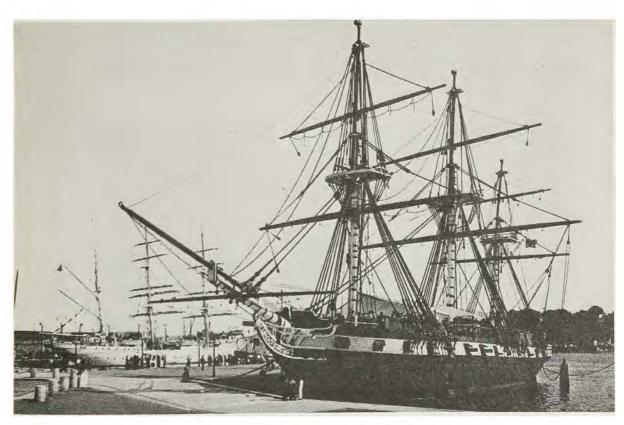
The following year (1608), Captain John Smith, one of the leaders of the Jamestown colony, took a small group of the men and an open boat and made a systematic exploration of Chesapeake Bay. The trip took 60 days, and, when they returned to Jamestown, Smith completed a map of the entire area, which was later published in England and actively used as a reference map for nearly a century. Hence, this map was available for use by Lord Baltimore's colonists, who arrived at St. Marys, Maryland, in the ARK and the DOVE in 1634.



This plaque on U. S. Route 40 near Edgewood, Maryland, marks a point on Bush River visited by Captain Smith and his party during the 1608 survey.

Many of the early settlers turned to ship building. A census of vessels taken in 1697 showed that 93 ships had been built on the Eastern Shore of Maryland, and 67 on the Western Shore.

One of the ships built in this area was the U. S. frigate CONSTELLATION, which is called the world's oldest ship continuously afloat. It was built at Baltimore and was launched 2 September 1797. This picture shows the ship, now a National Historic Shrine, as it appears today. The vessel, docked in Baltimore's inner harbor, is open to public inspection daily for a modest fee.



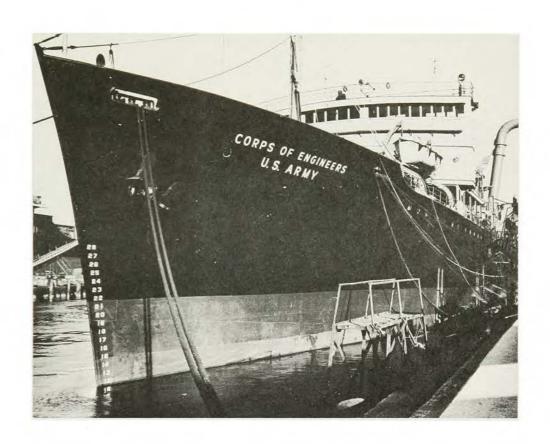
U. S. Frigate CONSTELLATION

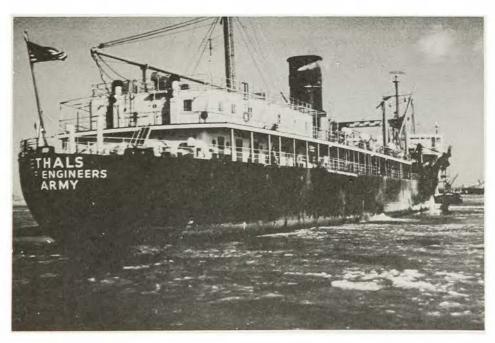
When John Smith mapped the Chesapeake in 1608 he had only the most basic equipment to work with—a compass to tell directions, and a lead line to determine depth of water. Even the sextant had not yet been invented, and there was no communication farther than the eye could see. Today survey boats of the Corps of Engineers gathering data for project mapping use electronic devices to determine their location, to obtain the depth of water, and to communicate with other vessels or a coastal station.

The following pages list the Baltimore District's floating plant and some of their electronic equipment.

Photographs on these pages came from several sources, but special credit for a large number of the pictures should be given to District photographers Vaughn Colbert and H. David Williams (now deceased) and to radio technician Ike Feiges.

A E D A DREDGE "GOETHALS"



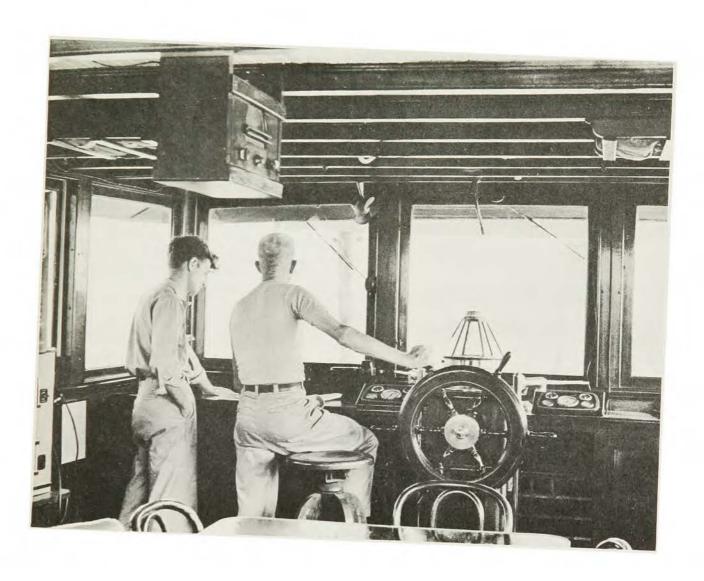


A sea-going, self-propelled hopper dredge, the GOETHALS is the second largest such dredge in the United States. The dredge was named in honor of General George Washington Goethals of Panama Canal fame.

The GOETHALS, built in 1938, is 476 feet long, 69 feet wide, draws 29 feet loaded, and has a speed of better than 13 miles per hour. When operating, two suction drags, one on each side of the dredge, are lowered to the bottom, and material is pumped into bins located within the dredge. When the bins are full, the drags are raised and the dredge proceeds to the dumping area and disposes of the material by opening gates, of which there are 16, located in the bottom of the dredge. The complete operation of dredging and dumping is conducted while the dredge is moving and does not require the assistance of attendant vessels. The dredge has a capacity of 6,400 cubic yards and is capable of accumulating a load of 2,000 cubic yards of mud and sand in approximately 10 minutes.

While the GOETHALS is not permanently assigned to the Baltimore District, it is one of several Corps-owned dredges that have been used to maintain the channels in Chesapeake Bay and Baltimore harbor.

A E G A SURVEY BOAT "HARWICH"



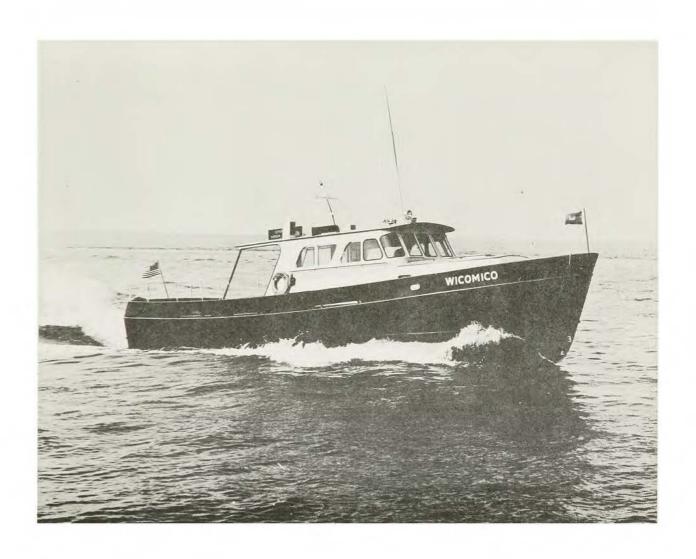
At the time the radio communication system was established in the Baltimore District (1948), the District's principal survey boat was the HARWICH.

The picture on the preceding page shows the interior of the pilot house with deckhand William Bailey (left) and Captain Kenneth M. Tolson at the wheel.

A part of the AM (amplitude modulated) radio communication equipment can be seen at the extreme left of the picture. The radio frequency used by District boats at that time was 2350 kilohertz.

The HARWICH was donated to the Corps of Engineers as part of the war effort in 1940 by Mr. and Mrs. Aaron Davis. She was a mahogany-paneled yacht with staterooms and even boasted a small bathtub. This proud lady served nobly as a survey boat, patrol boat, and vessel for showing distinguished visitors the Port of Baltimore and other water areas of the District, and she participated in several rescue missions. It was a sad day when she was finally sold for scrap about 1957.

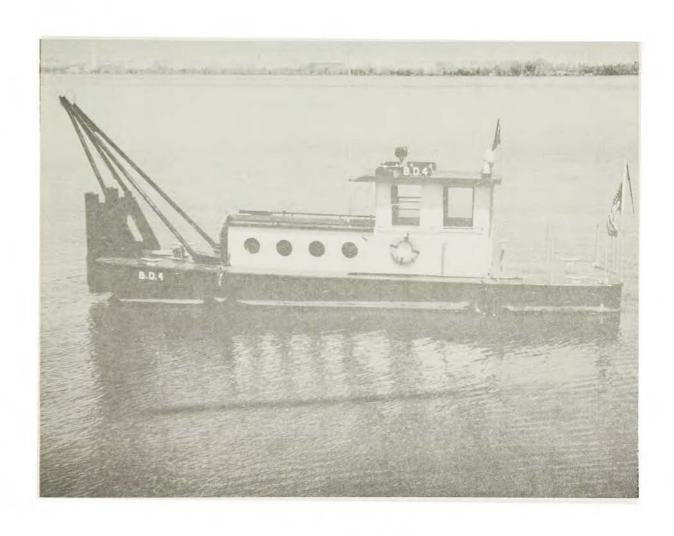
A E H E PATROL BOAT "WICOMICO"



AEHE (cont'd)

Name of vessel	WICOMICO	
Radio call sign _	АЕНЕ	
Type of vessel	Patrol boat	
	1 Horsepower	289
Type of motor	Diesel	
Speed, miles per	hour	
Length 52 ft.		
Beam (width)1	4 ft.	
Draft	4 ft 6 in.	
Material S	Steel	
Year built1	.960	
Sounding equipmen	t Bludsworth Model ES-1025	
Radio (Corps netw	ork) Motorola	
Radio (Coast Guar	d and commercial)Comco 610	A

A E I T DEBRIS BOAT "BD4"



AEIT (cont'd)

Name of vessel BD-4

Radio call sign	AEIT	¥1	
Type of vessel _	Debris boat		
No. of motors			165
Type of motor			
Speed, miles per Length35 f			
Beam (width)	10 ft.		
Draft			
Material			
Year built			
Sounding equipme			
Radio (Corps net	work) Motor	ola	
Radio (Coast Gua	ard and commerci	al) Comco	
Cost \$47,600	•		

A E K L PATROL BOAT "NANTICOKE II"



The NANTICOKE II is the District's newest patrol boat on Chesapeake Bay. It is shown here at Fort McHenry dock with two crew members, Deckhand Frank Gorski, left, and Captain Bob Fleming.

AEKL (cont'd)

NANTICOKE II

Name of vessel ___

Radio call sign	AEKL		
Type of vessel			224
No. of motors _	2	Horsepower, each	210
Type of motor _	Diesel		
Speed, miles pe			
Beam (width)			
Draft			
	Aluminum		
Year built	1971		
Sounding equipm	mentRaythed	n Explorer II Model	DE-725-B
Radio (Corps ne	etwork) Motor	ola	
Radio (Coast Gu	ard and comme	rcial) Raytheon R	AY-42
Cost \$58,900			

AEKW SURVEY BOAT "MARVADEL"



The MARVADEL is the District's principal survey boat with both electronic positioning equipment and echo sounder.

AEKW (cont'd)

Name of vessel	MARVADEL
Radio call sign _	AEKW
Type of vessel	Survey boat
No. of motors	2 Horsepower, each250
Type of motor	Diesel
Speed, miles per h	our 20
Length 58 ft	4 in.
Beam (width)	17 ft 1 in.
Draft	4 ft 3 in.
Material	Stee1
Year built	1957
Sounding equipment	Bludsworth Model ES-1000-AB
Radio (Corps netwo	rk) Motorola
Radio (Coast Guard	and commercial) Raytheon RAY-42
Cost \$116,900	
Positioning equipm	ent Hi-Fix Trisponder Model 202 made by Decca
Navigator Systems,	Inc.



Skipper of the MARVADEL is Captain Barnes S. (Bud) Lowery.



Deckhand and part-time radio operator on the MARVADEL is Horace E. Hall.

AEKW (cont'd)



Port side of the MARVADEL

A E K X DREDGE "ESSAYONS"



A sea-going, self-propelled hopper dredge, the ESSAYONS is the largest dredge of this type in the United States. The dredge, befitting the high regard in which it is held, bears the Corps of Engineers' own motto--ESSAYONS--meaning, "Let Us Try."

The ESSAYONS, built in 1949, has a length of 525 feet, a beam of 72 feet, draws 30 feet loaded, and has a speed of better than 14 knots. When operating, two drag suction pipes, one on each side of the dredge, are lowered to the bottom of the harbor, and material is drawn up by powerful suction pumps and deposited in hoppers. When the bins are full the drags are raised to deck level, and the dredge sails to a selected deepwater area and dumps the material through 24 huge doors located in the bottom of the vessel. The complete operation of dredging and dumping is conducted while the dredge is underway. The dredge has a capacity of 8,200 cubic yards and during a year's time digs and carries 10 million cubic yards of mud and sand. The maximum dredging depth is 60 feet.

The ESSAYONS is not permanently assigned to the Baltimore District, but is one of several Corps-owned dredges that visit the District when deep-channel dredging is required.

A E L Z DEBRIS BOAT "BD5"





Picking up driftwood on the Potomac at Washington, D. C.

AELZ (cont'd)

Name of vessel _	BD-5	<u></u>
Radio call sign	AELZ	
Type of vessel _	Debris boat	
No. of motors _	1 Horsepower_	220
Type of motor _	Diesel	_
Speed, miles per		-
Length 30 ft.		
Beam (width)	12 ft.	
	2 ft 6 in.	
Material	Steel	-
	1968	
Sounding equipme	ent None	
Radio (Corps net	twork) Motorola	
Radio (Coast Gua	ard and commercial)Comco	
Cost \$47,600		

A E N B DEBRIS BOAT "BD6"

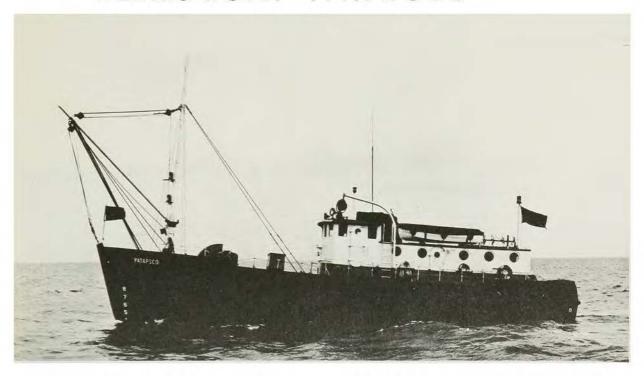


The DB-6 also helps keep the Potomac free of floating trash. Note tip of Washington Monument through trees at left.

AENB (cont'd)

Name of vessel	BD-6	-25.49
Radio call sign _	AENB	
	Debris boat	
No. of motors	1 Horsepower	220
Type of motor	Diesel	-
Speed, miles per	hour 11	
Length 30 ft.		
Beam (width)	12 ft.	
Draft	2 ft 6 in.	
Material		
Year built		
Sounding equipmen		
	ork) Motorola	
	d and commercial)Com	ico
Cost \$47,600		3
		V

A E U W DEBRIS BOAT "PATAPSCO"



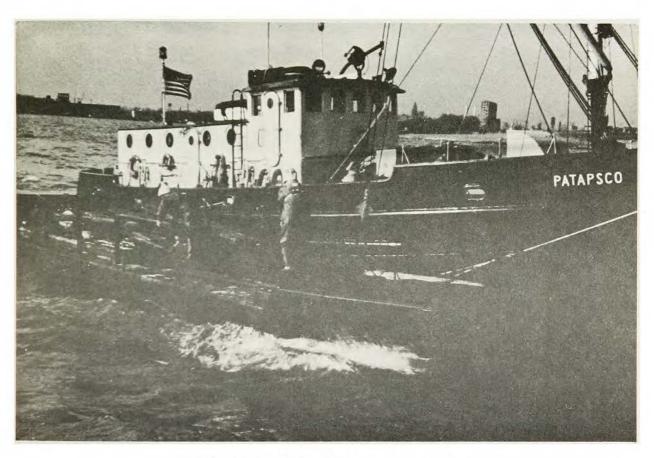
The PATAPSCO



Pilot house and former skipper James F. Reese

AEUW (cont'd)

Name of vessel _	PATAPSCO		
Radio call sign _			
	Debris host		
Type of vessel			
No. of motors	F	orsepower	270
Type of motor	Diesel		
Speed, miles per	hour 13		
Length 65 ft	6 in.		
Beam (width)	17 ft 6 in		
Draft	7 ft.		
Material			
Year built	1952		
Sounding equipme			ES-130
Radio (Corps net	work)Motoro	la .	199
Radio (Coast Gua	rd and commercia	1) Raytheo	on RAY-42
Cost \$81,000			



PATAPSCO loading driftwood on barge

AEUW (cont'd)

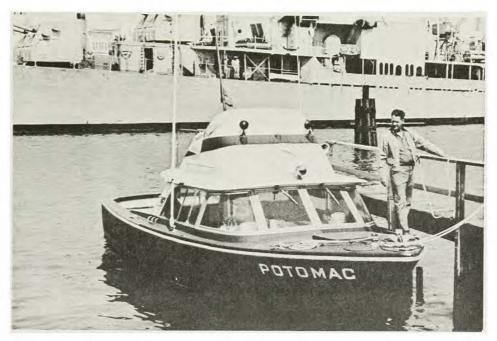


Captain James A. Sheldon



Deckhand David E. Smith, Jr.

A E V P PATROL BOAT "POTOMAC"



The District's former patrol boat POTOMAC and its skipper, Captain Robert J. Fleming.

AEVP (cont'd)

The POTOMAC, fully equipped, cost the District about \$35,000. After it was taken out of service, it was advertised for sale to the highest bidder.

The boat was sold in September 1973 to Roger E. Gay of Stow, Massachusetts, for \$7,201.01.

A E W O PATROL BOAT "CHOPTANK"



The CHOPTANK



Capt. Robert J. Fleming puts the CHOPTANK through her paces.

AEWO (cont'd)

Name of vessel	CHOPTANK
Radio call sign _	AEWO
Type of vessel	Patrol boat
No. of motors	2 Horsepower, each175
Type of motor	
Speed, miles per Length44 ft.	
Beam (width)	
	3 ft 6 in.
Material	Steel
Year built	
Sounding equipmen	Raytheon Explorer II Model DE-725-B
Padda (Corns note	work) Motorola
Radio (Corps net)	
	rd and commercial)Comco 610A

FLOOD CONTROL AND EMERGENCY COMMUNICATIONS

To support the statutory flood control and emergency activities of the Corps of Engineers, each District of the Corps maintains its own radio communication system.

In the Baltimore District, the principal station in the District net is WUB4, the District Office station, located in Baltimore. Other fixed stations are located at various dams and field offices throughout the District. Each of these is described in the following pages.

In addition to their Army-assigned "WUB" call signs, it will be noted that a number of the stations have additional call signs indicating they have also been licensed by the FCC (Federal Communcations Commission) and MARS (Military Affiliate Radio System) thus enabling these stations to communicate with other stations and networks outside the Corps of Engineers.

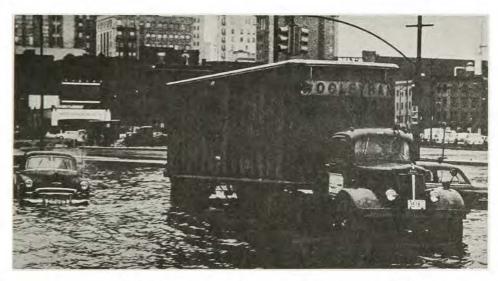
WUB 4 A A 3 W A Z K 3 W A Z BALTIMORE DISTRICT OFFICE



This 1954 picture was taken at a retirement party for Colonel Reginald W. Whitaker, left, (District Engineer 1951-54), who was the first FCC licensee of the District Office station K3WAZ; Michael A. Kolessar, toastmaster; Colonel Stephen E. Smith, standing, (District Engineer 1954-57) who became the second licensee; and LTC Edward J. Ribbs, Deputy.



Former Goucher College dormitory at 23d Street and Maryland Avenue, Baltimore, which was District headquarters from 1946 to 1967. The District radio station was located on the fifth floor, with antennas on the roof. An auxiliary station and an emergency power generator were located in the basement air-raid shelter. Note gas light at right.



Emergencies came and went. This was Light Street, Baltimore, during Hurricane "Connie" 13 August 1955. The District radio station was in service around the clock. A report came over the air that a ship had sunk south of Annapolis. Nine bodies were recovered.



C. F. (Fritz) Pfrommer, Chief of the Engineering Division, 1951 to 1968, guided the Division during a period of rapidly expanding civil works construction. Eleven of the District's base radio stations were established during this period.



Kenneth D. Forney as Chief of the Electrical Section from 1957 to 1969 was in charge of preparing plans for many of the District's fixed radio stations and arranging for electric power supplies.



C. H. (Ted) Leighton-Herrmann came to the District in 1946. As Chief of the Reservoir Control Center, he made extensive use of the radio system until his retirement in 1968.



Zoltan Varga, Hungarian refugee, gave European accent to station in 1957.



In this 1964 photo R. A. (Dick) Wilkinson (K3DVR) is shown examining the new Westrex single sideband equipment. Above the Westrex control unit are the old Johnson Viking II AM transmitter and VFO which were kept for use on AM nets. The Hammarlund HQ-180 receiver is at extreme right.



In June 1967 the various Divisions and Branches of the District Office, previously divided in several buildings, were consolidated in the new 16-story George H. Fallon Federal Building, 31 Hopkins Plaza, in downtown Baltimore. It seemed the 4 1/2 floors allotted to the Corps would be adequate for years to come, but by 1972 additional space had to be obtained in the W. R. Grace Building at No. 10 East Baltimore street. WUB4 is located on the 15th floor of the Federal Building with antennas on the roof, 338 feet above street level.



Less than a year after moving to the Federal Building, the office found itself in the center of racial riots that engulfed the older sections of the city. This Gay Street photo taken in April 1968 shows a typical fire-bombed and boarded-up building destroyed by the rioters. District personnel were called upon to provide support services and facilities for the National Guard and Army troops that patrolled the city.



Edward J. Harned
transferred to the District
from the Waterways Experiment
Station, Vicksburg, Mississippi, in 1939. He first
became Chief of the Hydrology
and Hydraulics Section in
1951. This 1972 photo
shows him conversing at a
social function with
B. G. (Mike) Recktenwald
(then Chief of Survey Section)
and Ed's wife, Mrs. Dorothy
Harned.



Stanley Warminski started work in the Baltimore District in 1962. Stan has not only proved his worth as a radio operator but has handled much of the administrative work associated with the radio system. The Westrex was still in use in this 1971 picture.



Eugene Stallings came to the District as a hydraulic engineer in 1957 and became Chief of the Reservoir Control Center in 1968. He transferred to Office, Chief of Engineers, in 1970.



Michael E. Kanowitz, hydraulic engineer, was first employed in the District in 1966 and became Chief of the Reservoir Control Center in 1970. In this position Mike is responsible for issuing orders daily--more often during floods--to all the damtenders to open or close the gates that control the flow.



Two District Office employees formerly assigned to the Reservoir Control Center are James L. Eberhardt (standing) and James E. Harris.



During actual emergencies it is necessary to call for volunteers to man the station around the clock. Two District employees who have helped when needed are (standing) Stephen J. Budosh (Major USAR, ret.) and Karl F. Kaufmann (Capt. USAR, ret.).



The Hydrology and Hydraulics Section in September 1970.

Front row, left to right: Ralph Van Droof, Edward J. Harned, Michael E. Kanowitz, Catherine Hammonds, Kenneth L. Garner, Parry J. Carlson.

Rear row, left to right: R. B. (Pete) Juhle, Terry L. (Ted) Johnson, Hendrik (Hank) Willems, Charles A. Kendrew.



Carl L. Schletzer began his Federal career in 1934. After service in Burma during WWII, he returned to the District. For several years he was Chief of the Military Branch. In 1974 he became Chief of the Engineering Division.



After service in the SW Pacific during WWII, Michael A. Kolessar came to the District in 1946. In 1968 he became Chief of the Project Planning Branch. As such he has taken great interest in the radio system and given support to measures needed to increase dependability.



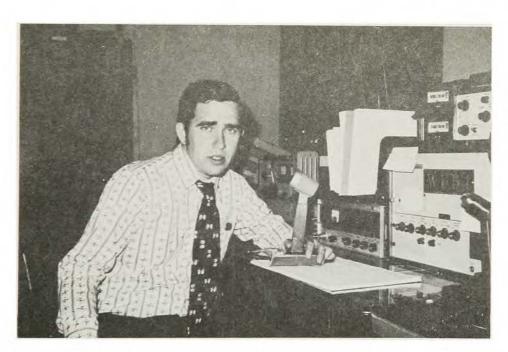
Karen Kerwath, one of WUB4's morning operators, and Willard J. Prentice (W3VBM). District Radio Station Director, 1948-1975.



Joseph I. Hemler (K3VQO) came to the District in 1967 and became Assistant Chief, Project Planning Branch in 1973.



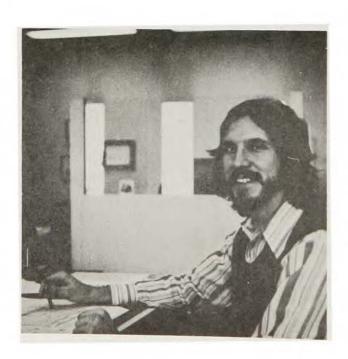
A frequent operator on morning flood control nets is Hydraulic Technician Cathy LaFon. During emergencies Cathy wears her Corps armband where it fits best. She has been with the Corps since 1971.



Hendrek (Hank) Willems started with the Corps on the junior engineer training (JET) program and was later assigned to the Hydrology-Hydraulics Section as a hydraulic engineer.



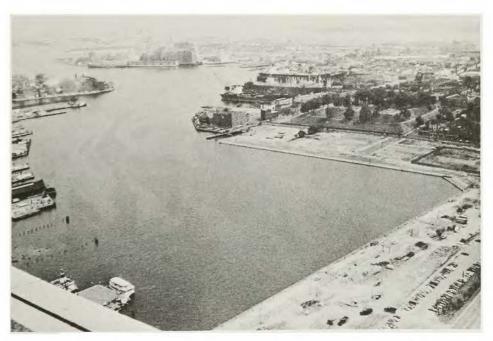
Frank St. Charles transferred to Baltimore from the Pittsburgh District in 1973. He is a hydraulic technician and also takes his turn as radio operator.



Electrical engineer Robert Billmyre, who came to the Corps in 1971, is responsible for licensing the radio stations and layout of new radio facilities.



Nancy Feiges operated from WUB405 before returning to the District Office, where she is occasionally heard from WUB4.

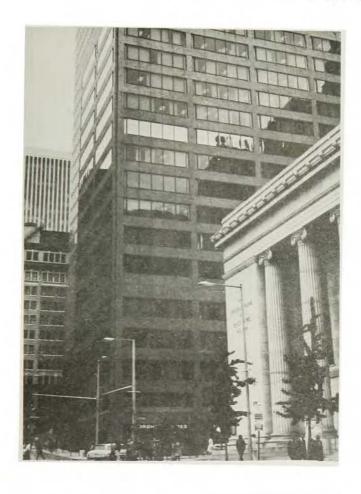


This 1974 photo shows major improvements underway along Baltimore's inner harbor.



QSL cards are received from far-away places confirming two-way radio contacts.

WUB 4 REMOTE OPERATIONS DIVISION



W. R. Grace Building where WUB4 Remote is located in Operations Division on the 14th floor.



Former Operations Division Chief, John L. Reynolds, left, remains active in District Duckpin League. Here he presents trophy to Ex Grandea for his 172 high game.

WUB4 REMOTE (cont'd)



John P. O'Hagan became Chief of Operations Division in 1971.



Robert Edwards is Acting Chief, Enforcement Branch.



Gilford J. Medeiros, inspector.



Jack Herpel, office operations.

WUB4 REMOTE (cont'd)



Hyman (Herb) Epstein is Chief, Navigations Branch.

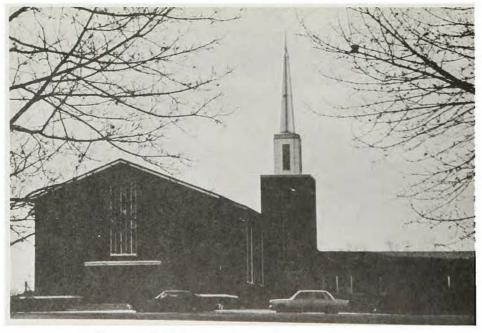


Blair Robinett retired as waterways inspector in 1974.

WUB 40 CARLISLE BARRACKS, PA.



WUB40 is located at Jim Thorpe Stadium



Part of War College, Carlisle Barracks

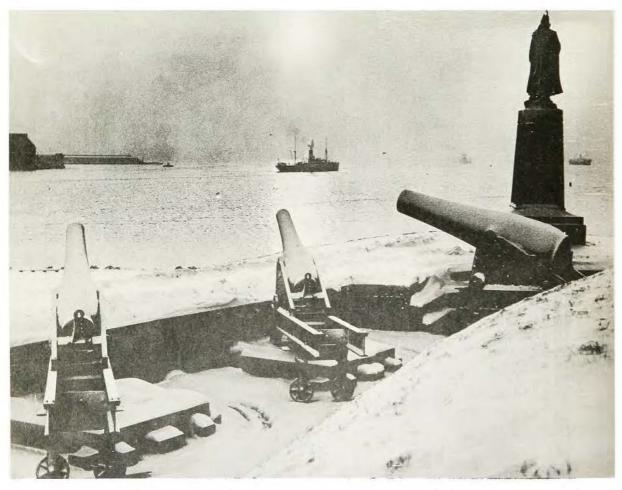


Auditorium (exterior)



Auditorium (interior)

WUB 41 FORT Mc HENRY, MD.



WUB41 is located at historic Fort McHenry, whose guns in 1814 repelled an invading British fleet. Statue at right is that of Colonel Armistead, who commanded the fort at that time.



A "Star Spangled Banner" still flies over Fort McHenry in the exact spot a similar flag (with fewer stars) was flying when Francis Scott Key wrote the poem which he called "Defence of Fort McHenry." This poem was later set to music and eventually became our National Anthem.



The Navigation Section's field office and radio station share the frame building at right with the District's Soils Laboratory.



Roy Logan came to the District in 1935. During WWII he served as a captain in the European theater. He returned in 1945 and was in charge of the Fort McHenry office at the time the radio station was established in 1948. He is now retired from Federal service.



Edward F. Kerns, construction inspector, is here shown at the console of the VHF base station. Through a repeater system this station can communicate with District boats on Chesapeake Bay or the Potomac River.



Boat crews of 1972 at Fort McHenry, left to right: Deckhand Frank Gorski, NANTICOKE II; Captain David Smith, WICOMICO; Deckhand Ed Dunham, WICOMICO; Captain James F. Reese, PATAPSCO; Captain James A. Sheldon, PATAPSCO; Captain Robert Fleming, NANTICOKE II.



The single sideband transceiver at Fort McHenry is used by the Foundations and Materials Branch for communication with its drilling crews throughout the District. Robert Coale is the principal operator.

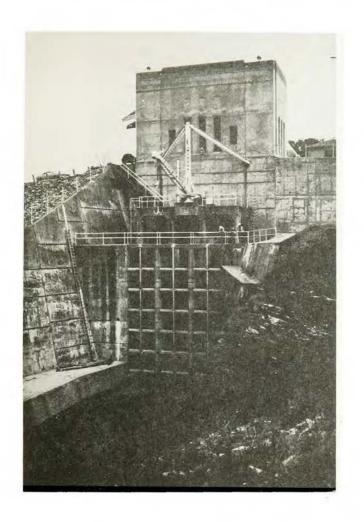


In the Corps laboratory at
Fort McHenry tests are made on
foundation materials, on soils,
and on concrete samples. Technician
John Schmitt is shown here recording
results of consolidation test on
soil sample.

WUB 42 K 3 W D B A A 3 W D B INDIAN ROCK DAM, YORK, PA.



WUB42 (cont'd)

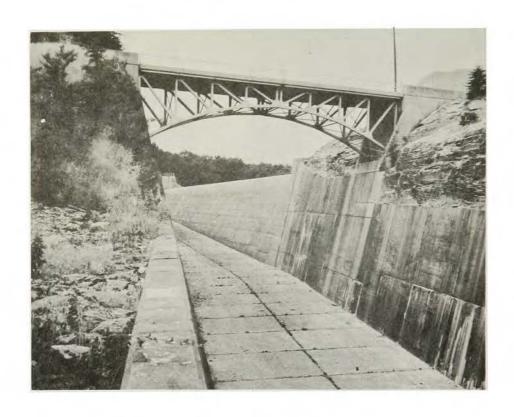


Left: Intake structure and gate-control house, where office and radio station are located.

Below: Head dam-operator's residence.



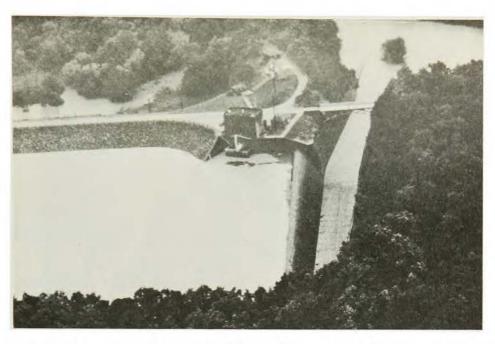
WUB42 (cont'd)





Above: Spillway and arched bridge under normal conditions.

Left: The same spillway with water pouring over the crest during flood following tropical storm "Agnes."
Picture was taken 23 June 1972 at 0900 hours.



Aerial view of reservoir with water near spillway-crest elevation, June 1972.



The floodwaters of June 1972 overtopped the banks of Codorus Creek and did extensive damage in York.



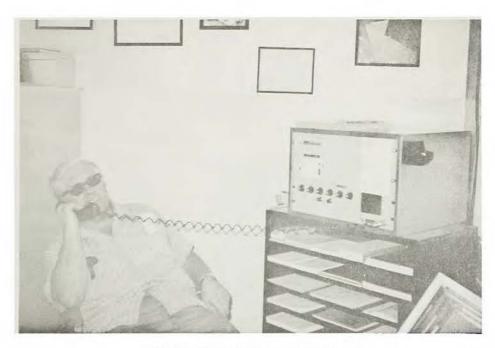
Operations Division
Chief John Reynolds
congratulates retiring
Indian Rock Head Dam
Operator Edward F. Ruth
and Mrs. Ruth, July 1970. .



District Radio
Technician Isaac (Ike)
Feiges high on a ladder
installing a new antenna
tuning unit for WUB42.



Wilbern L. (Bill) Kirkpatrick, head dam operator



Robert Harris, assistant

WUB 43 K 3 O U A A A 3 O U A STILLWATER LAKE, FOREST CITY, PA.



WUB43 (cont'd)



Head dam operator
Anthony S. (Tony) Mancuso
(foreground) and assistant
Paul Terchek in 1962
picture showing AM radio
equipment—Hallicrafters
SX-24 receiver (left),
speech amplifier BC-614-D,
and Army type transmitter
BC-610-D.



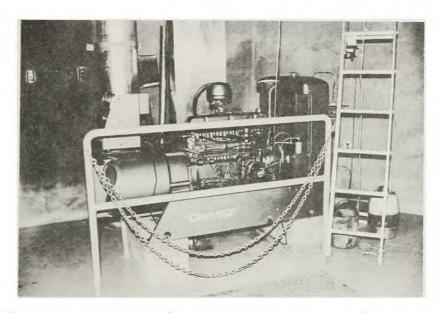
Shop, office, and radio station

WUB 44 WA3ABF AD3ABF ALVIN R. BUSH DAM, RENOVO, PA.

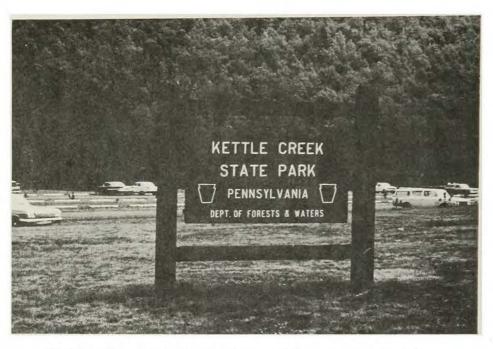




This sign gives pertinent information about the dam.



Standby unit provides electricity to operate the gates in case of commercial power failure. A smaller standby unit provides power to operate the radio equipment.



Kettle Creek State Park is adjacent to the dam.



Fisherman Earl Brown caught this 24-inch, 4 1/2-pound brown trout in the lake near Beaver Dam Run.



Head Dam Operator John J. Kocian



Assistant Charles E. Hall

WUB 45

MAINTENANCE BRANCH, WHITNEY POINT, N.Y.



A 1970 meeting of the District's damtenders, left to right,
A. S. (Tony) Mancuso, Stillwater Lake; Bert M. Smith, Foster Joseph
Sayers Dam; Frank Maruschak, Curwensville Lake; John C. McKown,
East Sidney Lake; Edward S. Potoczak, who later became Chief of the
Maintenance Branch; Edward F. Ruth, Indian Rock Dam; H. G. (Hank)
Wuest, Whitney Point Lake (later transferred to Almond Lake);
William J. Flohr, Almond Lake; John J. Kocian, Alvin R. Bush Dam;
and P. Kim of the Maintenance Branch.



Edward S. Potoczak, Chief of the Maintenance Branch located at Whitney Point, New York. This Branch performs maintenance work as required at any flood control project in the District which is operated and maintained by the Corps of Engineers, except at Raystown Lake, which has its own maintenance capability. The Chief of the Branch also has supervisory control of the dam operators, with the one exception.

WUB45 (cont'd)



Francis J. Hogan, clerk and principal radio operator. Lower transceiver is a model CA-27B made by Communications Associates; upper unit is a model SBA-310M made by Sideband Associates.



John Carter, supply clerk

WUB 46 WA2OUC AD2OUC

WHITNEY POINT LAKE, WHITNEY POINT, N.Y.





Some signs give information about the dam.



Other signs give rules for public use of the lake.

WUB46 (cont'd)



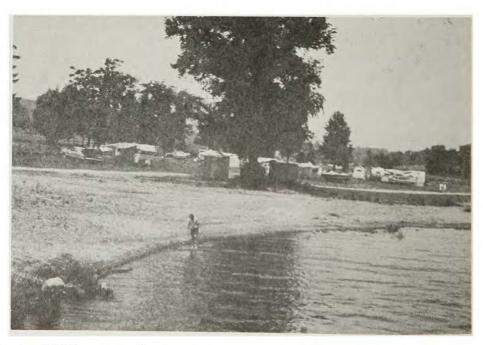
Boat-launching ramp at the Dorchester site, Whitney Point.



Sailboats like these often dot the lake.



The Trading Post supplies the vacationer's needs.



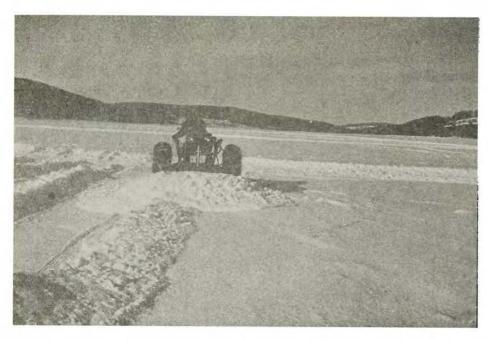
Upper Lisle campsite.



A winter scene showing garage, shop, head dam-operator's residence, and gate-control house.



Snowmobiling is a favorite sport at Whitney Point.



Clearing snow from the ice on Whitney Point Lake in preparation for auto races on the ice.



Sports cars like this compete in races on the ice.

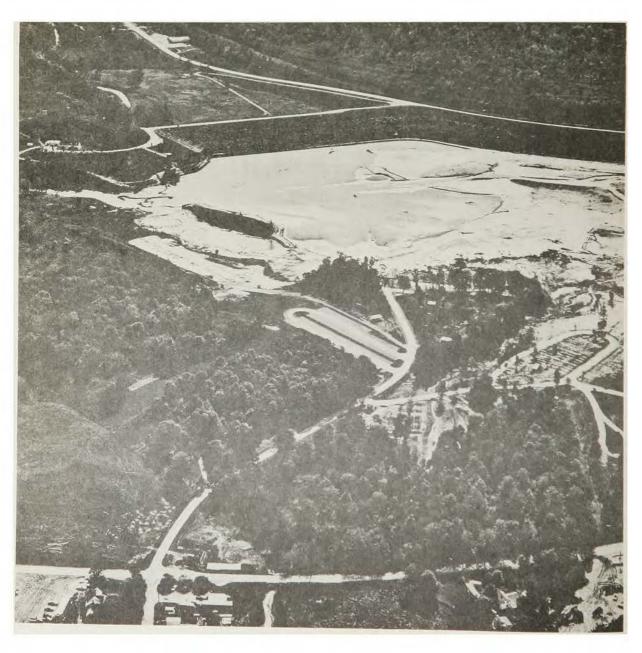


Mathew (Mickey) Eggleston, head dam operator



Thomas H. Hurlbut, assistant

WUB 47 W A 2 O U D A D 2 O U D ALMOND LAKE, HORNELL, N.Y.

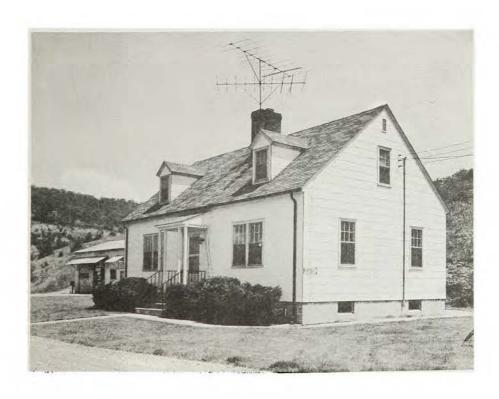


WUB47 (cont'd)

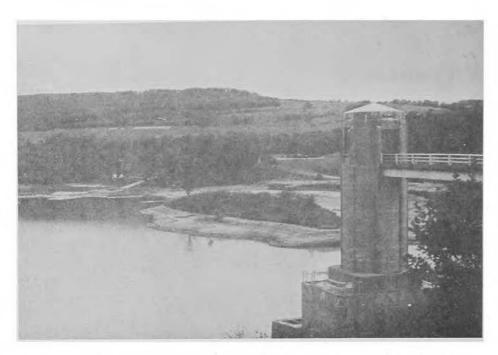


Left: The project sign gives vital statistics on the dam.

Below: The head dam operator's house. Radio station is located in basement.



WUB47 (cont'd)



Control tower where hydraulic gates are located



Bathing beach at Kanakadea Park

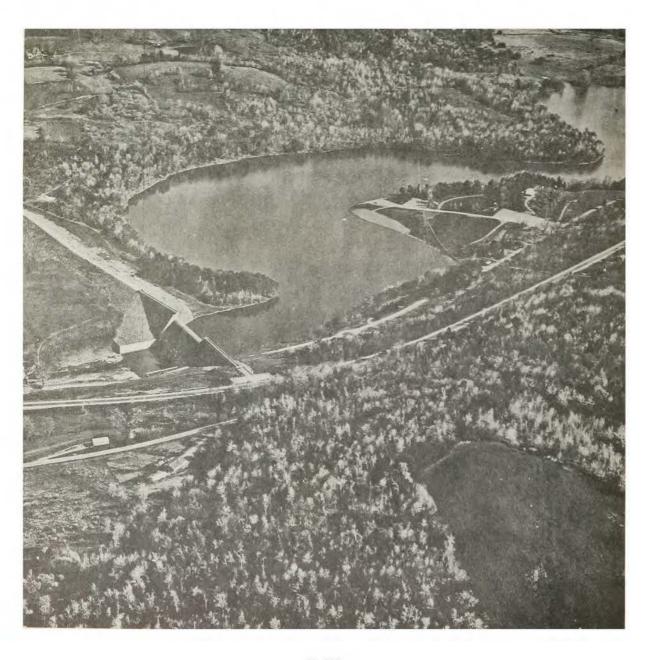


Head Dam Operator H. G. (Hank) Wuest



Assistant Carl L. Poyer

WUB 48 W A 2 O U B A D 2 O U B EAST SIDNEY LAKE, UNADILLA, N.Y.

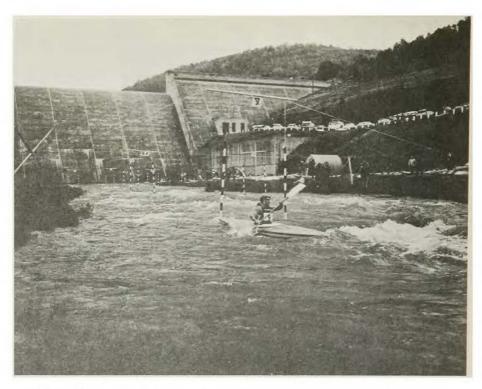




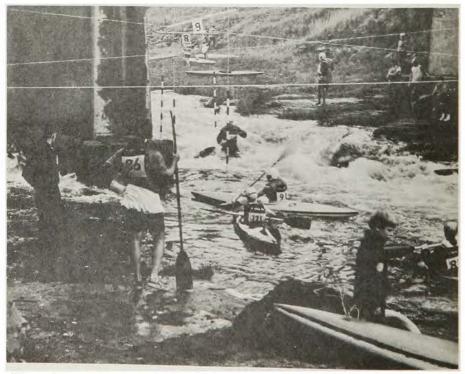
First dam tender
at East Sidney was
Missourian Curtis Klobe,
center, shown here at
a retirement party in
1970 with wife, Nell,
and District Office employee Herbert H. Linthicum.
Curt worked at several
District projects before
retiring.



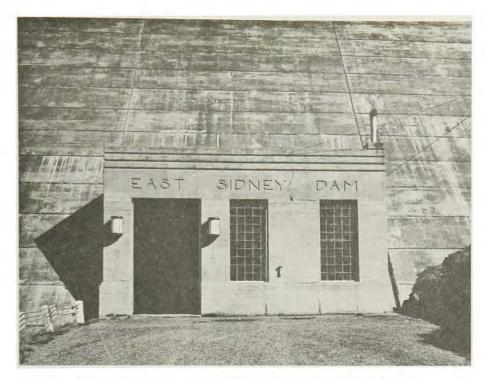
Second damtender was Robert Sanford. In this 1950 picture he is still using the original AM radio equipment of WWII vintage.



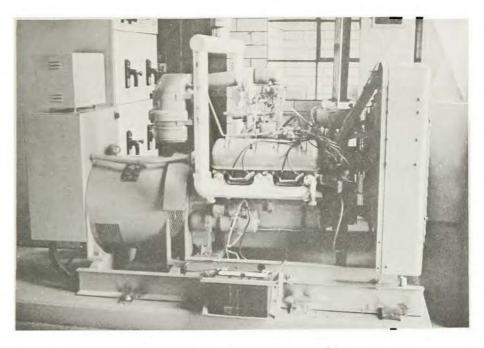
The slalom starts just downstream from the dam.



The white water races bring contestants from afar.



Entrance to control room and galleries.



The emergency power unit.

WUB48 (cont'd)



Boat dock at East Sidney Lake.



Water skiing is a favorite sport.



Head dam operator's house. Radio station is in basement.



Camping at East Sidney Lake.

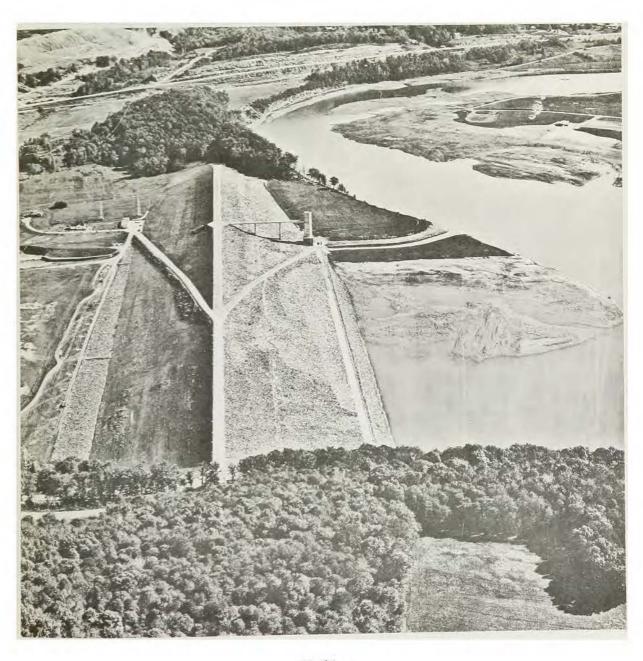


Present (1974) head dam operator is John C. McKown.



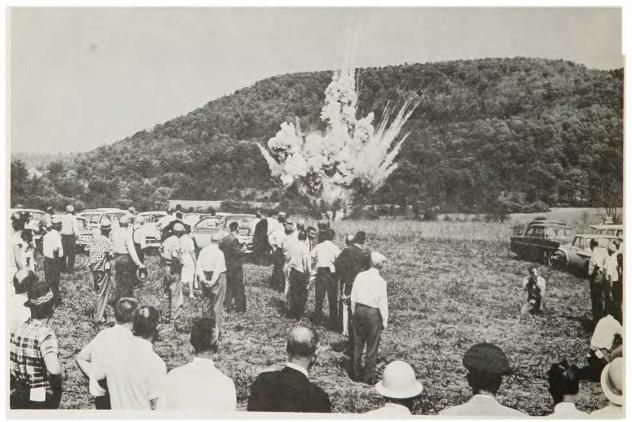
Assistant Harvey E. Forkey

WUB 400 WA3DZA AD3DZA CURWENSVILLE LAKE, CURWENSVILLE, PA.





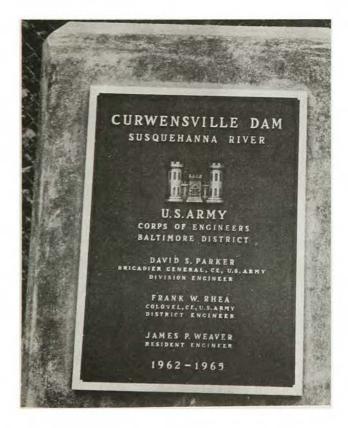
In 1960 Civil Engineer Willard Prentice observed that support for the project was less than unanimous.



But in 1962 the Corps went ahead with the groundbreaking ceremony.



This sign gives project dimensions.



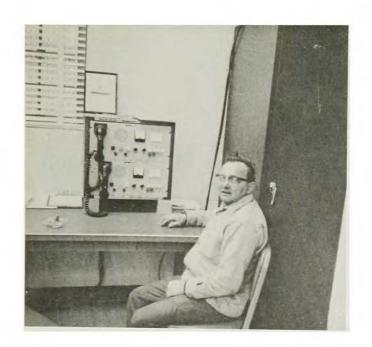
This plaque gives credit to the men in charge of the construction.



An inspection team visiting the dam in 1970 consisted of Geologist Peter Hart and Civil Engineers E. T. (Tom)
DiLaura, M. A. (Mike) Kolessar, and R. W. (Bob) Craig.



Radio tower and head dam operator's residence are shown at left and assistant's residence at right.

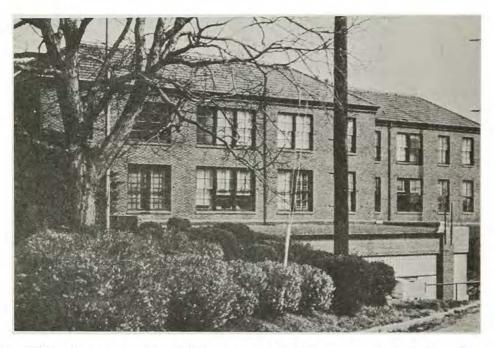


Head Dam Operator Francis (Frank) Maruschak is shown in this 1967 picture while Westrex sideband transceiver was still in use.

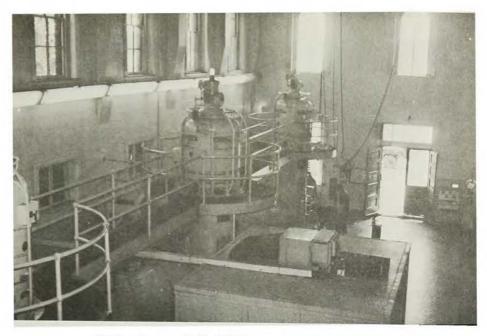


Lamar H. (Berkey) Berkebile, assistant, and present (1974) transceiver made by Communications Associates, Inc.

WUB 401 Mc MILLAN RESERVOIR, WASHINGTON, D.C.



The Administration Building at McMillan Reservoir once housed the former Washington District office.



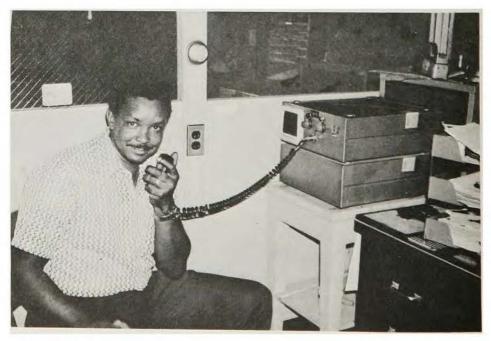
Interior of McMillan pumping station



Sanford D. Blackmon, water-treatment plant foreman



Robert Bradshaw, water-treatment plant operator.



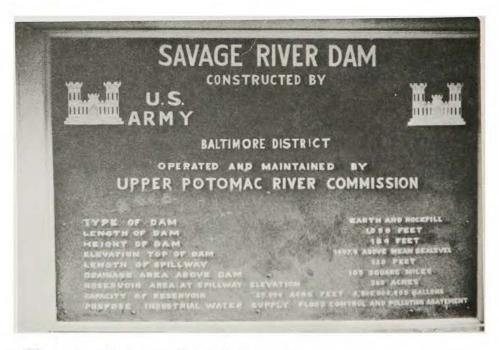
Leon Vinson takes his turn at the radio.

WUB 402 WA3ABE AD3ABE SAVAGE RIVER DAM, SWANTON, MD.





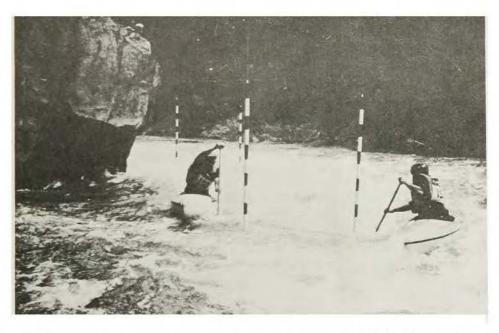
Gate-control house at Savage River Dam



Sign at entrance gives information about the project.



In July 1972 qualifying slalom races were held on Savage River prior to Olympic tryouts.



This 1973 picture shows a canoeist going through the white water.



Harry Bittinger, Head Damtender

Harry is a lifelong resident of western Maryland. The town of Bittinger in Garrett County, some ten miles northwest of the dam, was named after his forefathers.



Here we see George Reeves, an assistant damtender, standing by one of the poles that support the end-fed antennas for the single sideband transceivers.

We don't have a picture of Ray Platter, the other assistant damtender at Savage River. Efforts to obtain Ray's picture proved unsuccessful.

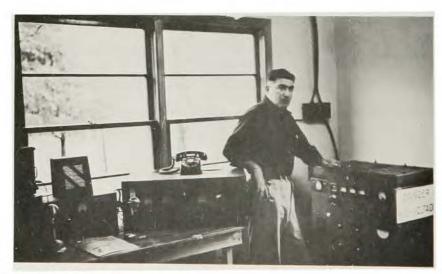
WUB 403

K 3 W C Z A A 3 W C Z

GEORGE B. STEVENSON DAM, AUSTIN, PA.

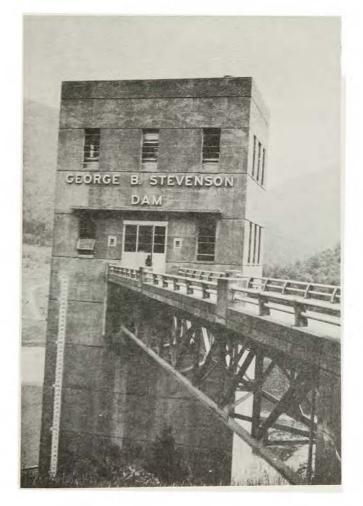


Head damtender's residence, office, and radio station



Ray Azzato was head damtender when this picture was taken in 1956. Transmitter was a BC-610.





Above: View of the lake looking upstream from the dam.

Left: Gate control tower. Dam is owned and maintained by Commonwealth of Pennsylvania, but by agreement, the operation of the gates for flood control is directed by the Baltimore District Office.



Present (1974) head damtender is Herbert C. Fox. Larger transceiver is a Communications Associates 27-B. Upper unit is a Sideband Associates Model 301.



Assistant damtender Malcolm A. Kitchen. Malcolm's hobby is catching rattle snakes and entering them in bagging contests. One of his rattle-snake contests was given national TV network coverage in 1974.



Other operators include Francis Burfield and . . .



Richard Conerby

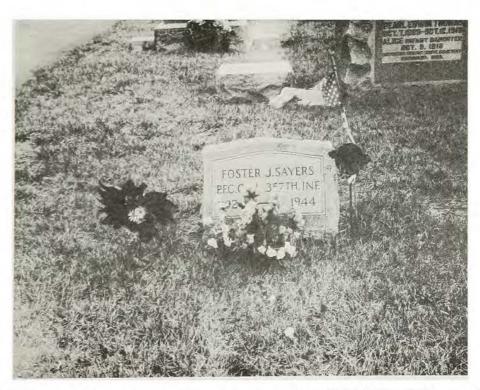
WUB 404 W A 3 K U O A D 3 K U O

FOSTER JOSEPH SAYERS DAM, BEECH CREEK, PA.



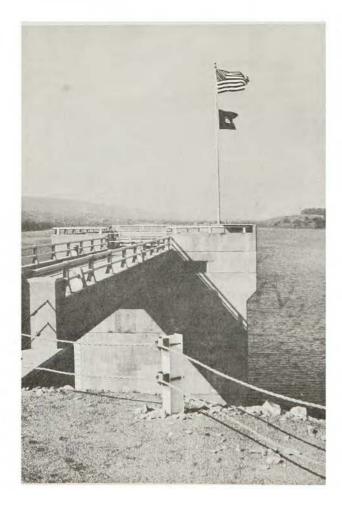


Dam was named by Congress in honor of local hero.



PFC Foster Joseph Sayers won Congressional Medal of Honor for action in WWII. He is buried in Schencks Cemetery.



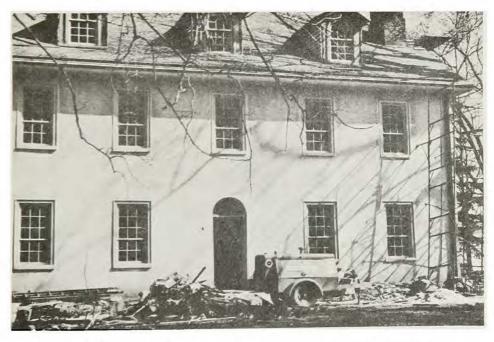


Above: Office, radio station, and towers are located between the two dam operators' residences.

Left: This 1973 picture shows the control tower as it appeared before roof modification.



Historic area near the dam includes the Curtain Mansion and iron works.



The Mansion in process of restoration (1972).



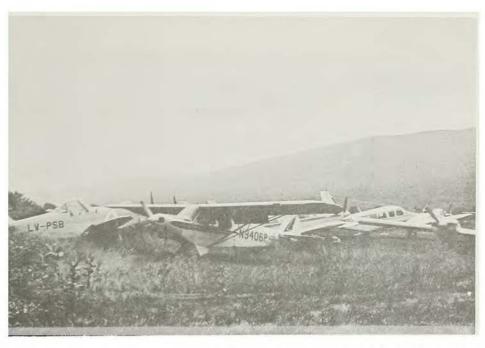
The 1970 inspection. An inspection party normally includes engineers and geologists from the District Office in Baltimore; the Division Office in New York City; and Office. Chief of Engineers in Washington.



Inspecting the outlet tunnel.



Main Street, Lock Haven, as cleanup started following tropical storm Agnes, June 1972.



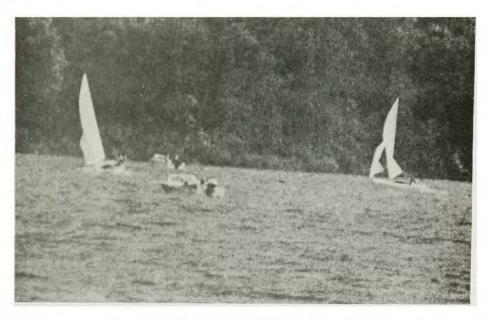
New airplanes at Piper Aircraft Corporation damaged by the flood were ordered destroyed by Federal Aviation Administration. Company estimated its damages at \$24 million.



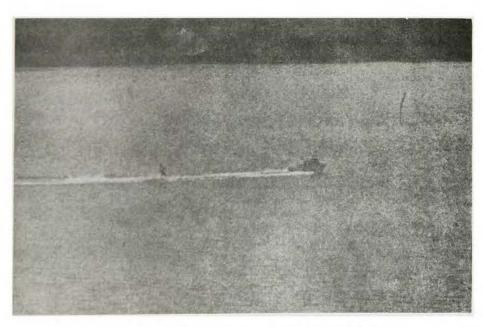
Boat-launching ramp



Fishing pier at Greens Run



Sailing on the lake



Water skiing at Foster Joseph Sayers Dam





Above: Head Dam
Operator Bert M. Smith
demonstrates the PPT
all-season vehicle used
to reach remote parts
of the reservoir.
Machine, made in Quebec,
has a maximum speed of
35 m.p.h.

Left: Assistant Dam Operator Harold W. Probst usually transmits the morning reports to the District Office.

WUB 405 FORT GEORGE G. MEADE, MD.



An early advocate of VHF radio in the District was Area Engineer Rufus Greene shown here with Construction Division Chief Paul Jones (standing) and Mrs. Greene at Rufe's retirement in May 1971.



Bay Area Office staff, July 1971, left to right:
Top row - James L. Hawk, Earl W. Rock, Elton L. Wright, Hayward Goodwin,
Joseph E. Gabor, Lt. McClay, Cpt. Beck, Stella T. Atchison, Charles W.
Martin, Ralph R. Hurd

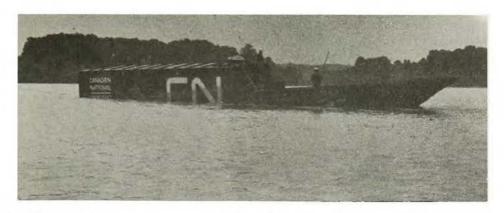
Bottom row - Daniel G. Kane, Deputy Area Engineer; William A. Rattman; John R. Fedorchak; Norman W. Weaver; Mary E. Raines; Kathryn B. Reina; Major Wain W. Stowe, Area Engineer



A good example of the specialized construction skill of the Corps was the Kimbrough Hospital at Fort Meade.



One of the large office-type buildings constructed by the Corps was the NSA Annex at Fort Meade.



The Corps performed many unusual tasks during tropical storm Agnes. One such incident was lassoing a stray Canadian National freight car floating in the Patapsco River and towing it back to dry land.

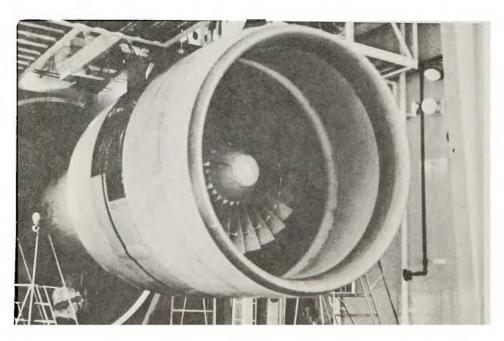


A pleasant voice often heard from WUB405 is that of Betty L. Michelman.

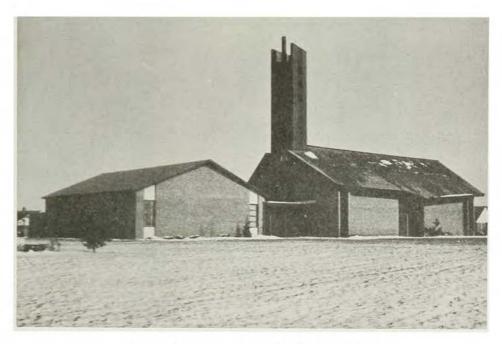
WUB 406 DOVER AIR FORCE BASE, DEL.



In the District Office, Dover means planes -- and especially the C-5A.



C-5A engine in test cell



Chapel at Dover Air Force Base



Interior of new commissary completed in November 1973 at a cost of \$1.4 million. B-121



Acting Area Engineer, Charles M. Haddaway, III



Assistant to Area Engineer, 2LT Mike Borovicka



Dover Area personnel, July 74; left to right: John Vrhovac, Bill Jones, Lee Garrity, Dillard Hooker, Virginia Schoen, Charlie Haddaway, Ed Zimmerman, Ron Blackwell, 2LT Mike Borovicka

WUB 421

OFFICE, CHIEF OF ENGINEERS, WASHINGTON, D.C.

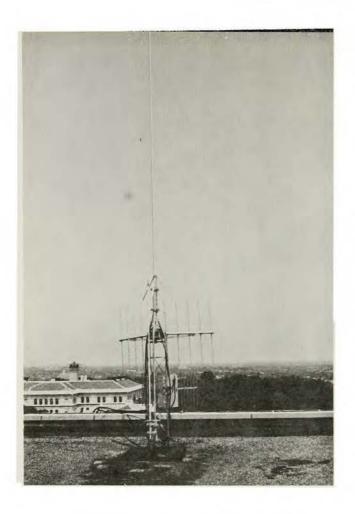


Forrestal Building on Independence Avenue where Office, Chief of Engineers is located.



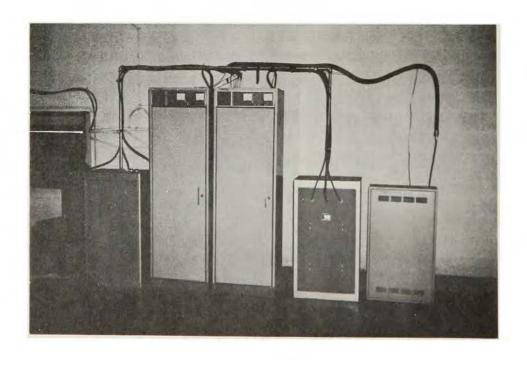
The transmitter site for WUB421 is at Soldiers Home in north Washington.

WUB421 (cont'd)



Antennas on the roof of the Sheridan Building at Soldiers Home (left) include a Sinclair corner reflector for the Washington-Baltimore VHF link and a vertical whip for omnidirectional coverage in the Washington area.

The remotely controlled equipment in the Sheridan Building (below) includes two Motorola transmitter-receivers plus Sinclair duplexers for frequency separation and cavity filters to minimize interference.



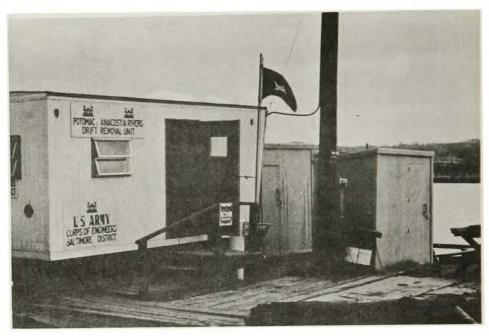


Electronics Engineer Tom Carr of Office, Chief of Engineers administers Corps communications at the National level and acts as advisor on communication problems to Corps offices from Boston to Los Angeles.



Ronald Bynum dispatches vehicles at Office, Chief of Engineers.

WUB 422 NAVY YARD, WASHINGTON, D.C.



Field office for Drift Removal Unit



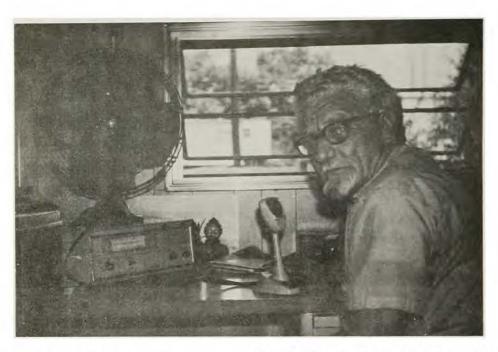
Drift collectors bring drift material to dock in Washington where it is removed from barges by this crane.



Drift material may be stockpiled on dock . . .



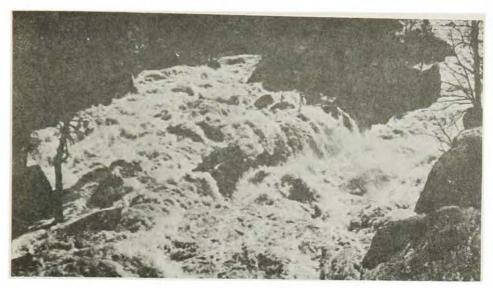
or loaded directly into trucks and hauled to a disposal area.



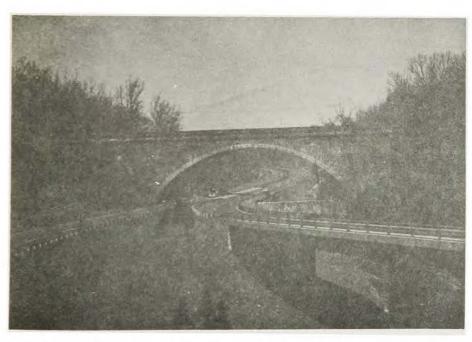
From his office on the west bank of the Anacostia River Harry M. Moran directs the activities of the Drift Removal Unit and other Corps maintenance assignments on the Anacostia and lower Potomac Rivers. In normal times the Drift Removal Unit can collect and dispose of all drift material in the Washington area, but, following tropical storm "Agnes" in 1972, the quantity of drift material that came down the Potomac with the flood waters was so great that it was necessary to obtain outside assistance. More than 200,000 cubic feet of drift material was collected within a few days following the flood.

WUB 423

DALECARLIA RESERVOIR, WASHINGTON, D.C.



Potomac River at Great Falls. A low dam near here diverts water to the intake structure.



Six miles downstream from the intake the Cabin John Bridge carries the gravity conduit across a valley. This pipeline, completed in 1863, is still a major part of Washington's water-supply system.

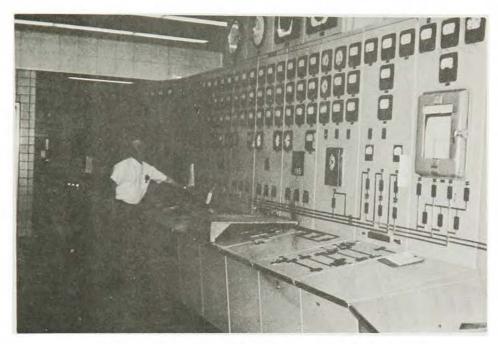
WUB423 (cont'd)



Aerial view of the Dalecarlia water plant. Water from Great Falls conduit enters forebay, upper center, and is then chemically treated and filtered.



Dalecarlia water plant as seen from entrance.

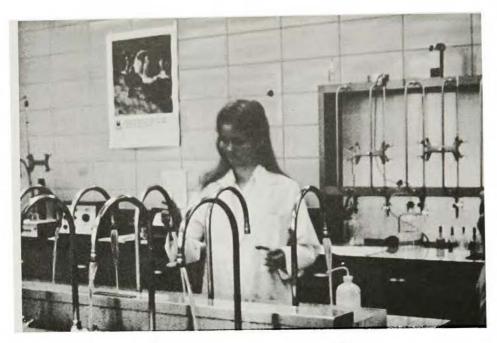


Dalecarlia pump station control panel



Alum-feed machinery in filter and chemical building

WUB423 (cont'd)



Laboratory at Dalecarlia



The Corps of Engineers involvement in Washington's water supply stems from the fact that Washington is a Federal city. The castle gatehouse at Georgetown Reservoir, completed about 1901, is built to resemble the Corps emblem. In 1974 the gatehouse was named an American Water Landmark by the American Waterworks Association.

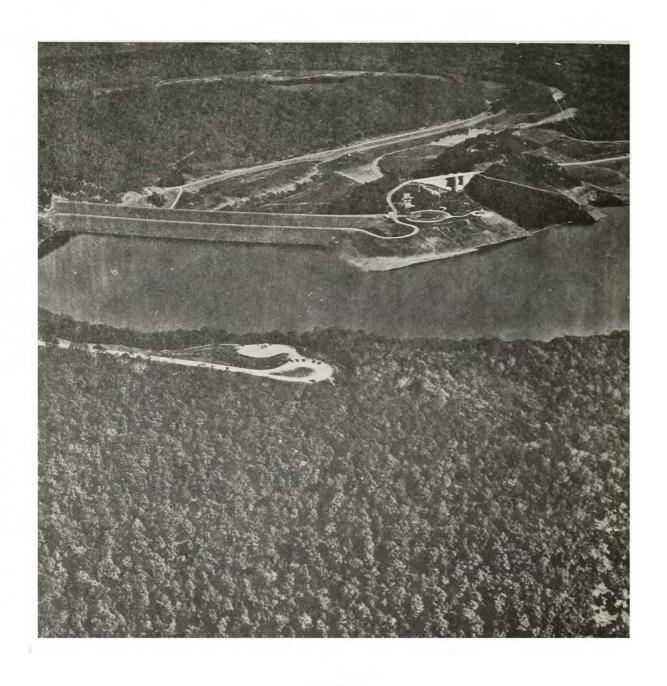


A system so vital to the Nation's capital requires constant police protection. Shown here is Capt. Andy S. Sesock of the Washington Aqueduct Police Department.



Sgt, Clifton E. Milam at police headquarters

WUB 430 RAYSTOWN DAM, HUNTINGDON, PA.





Left: Civil Engineer
Technician Jack Rodgers was
responsible for the tremendous
amount of office work associated
with construction of such a
large project.

Below: Gladys Grubb was one of the radio operators during the construction period.

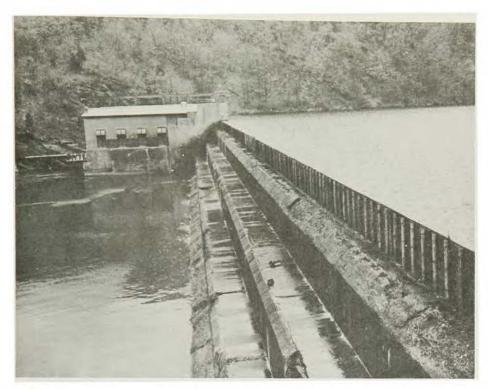




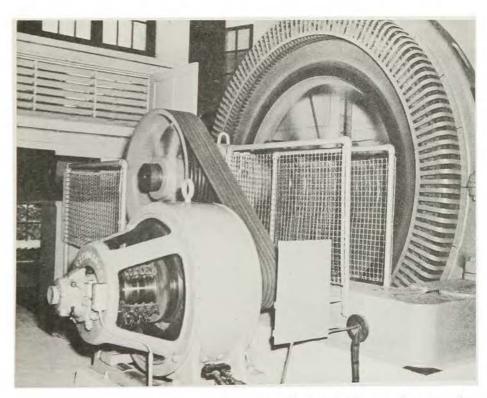
Above: View during construction of the 18.5-foot-diameter outlet tunnel.



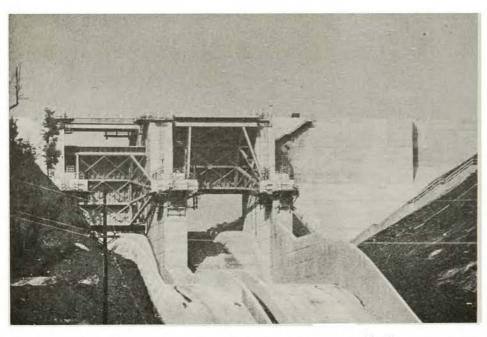
Left: A Federal employee who contributed much to the construction work was Nelson Hofert shown here with wife Dorothy at his retirement party in 1970.



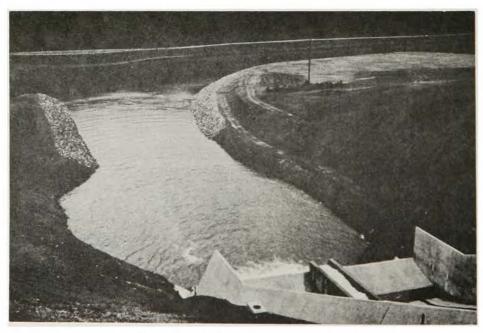
Early development on the Raystown Branch consisted of this low dam and utility-owned power house at the far end (1970 photo).



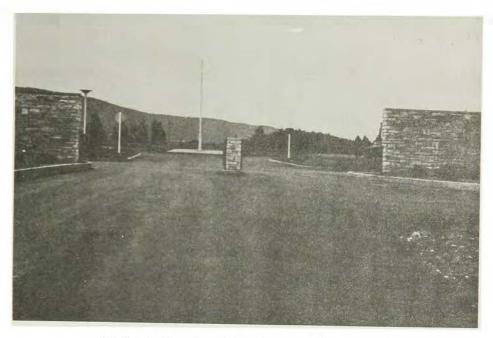
This ancient Westinghouse generator was still used occasionally up until the time it was dismantled for the Federal project.



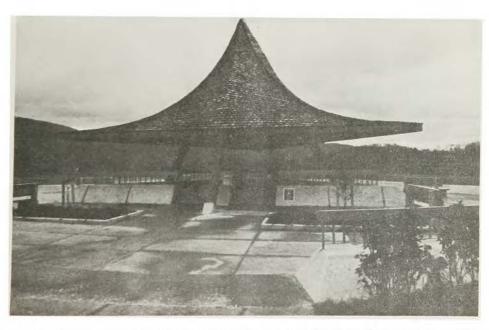
Spillway flow is controlled by these two radial-type gates each 45 feet wide by 45 feet high.



Outlet channel below spillway

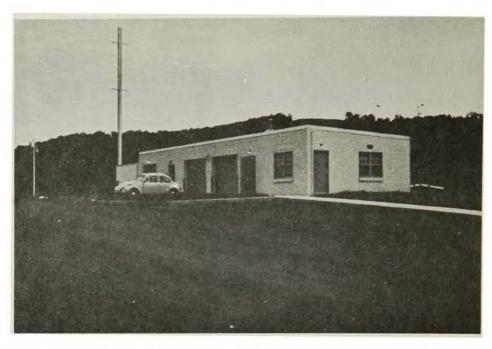


Main entrance to observation area

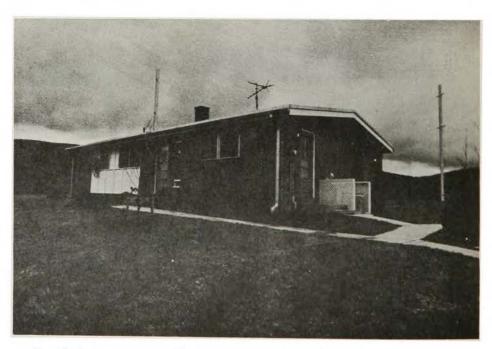


This pagoda-type structure protects visitors from the summer sun.

WUB430 (cont'd)



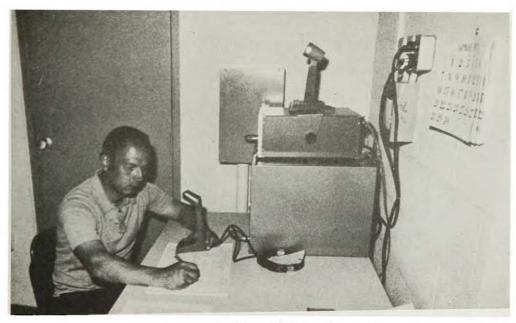
The radio station is located in the office and shop building at the dam.



Head dam operator's house at the Raystown project



Head dam operator is Calvin L. "Kelly" Burge.



Assistant is Donald A. Amman.

WUB 431

CHESAPEAKE BAY MODEL, MATAPEAKE, MD.



In fall of 1973 the 1,000-foot-long shelter which will house the Chesapeake Bay Model was beginning to take shape. The model will be one of the world's largest of this type.



In spring of 1974 additional sections of the shelter, which will cover more than 600,000 square feet of ground surface, were being erected.

WUB431 (cont'd)



The dual William Preston Lane, Jr., Memorial Bridge across Chesapeake Bay connects Baltimore and Annapolis on the Western Shore with Kent Island, at the far end, where the Chesapeake Bay Model will be located.



Annapolis harbor is the home port for many recreational boats.

The Matapeake VHF repeater provides good communications to the Annapolis area.

WUB431 (cont'd)



This marker outlines history of the Maryland Statehouse.



The octagonal dome rises high above the Statehouse.

SALISBURY (MD.) REPEATER

Ocean City is Maryland's seaside resort. It is also Maryland's only port directly on the Atlantic Ocean. While its 10-foot-channel depth does not permit usage by large ships, the harbor is extensively used by smaller commercial and recreation boats that operate along the Atlantic coast. The Salisbury repeater provides VHF communications from Ocean City to the District Office in Baltimore.



SALISBURY REPEATER (cont'd)



The Salisbury repeater provides VHF communications from the District Office to most of Maryland's Eastern Shore. This photo shows damage at Fenwick Island by storm of 6-7 March 1962.



Fishing from the Corps-built north jetty at Ocean City, Maryland.

WUB 432 ABERDEEN - EDGEWOOD, MD.

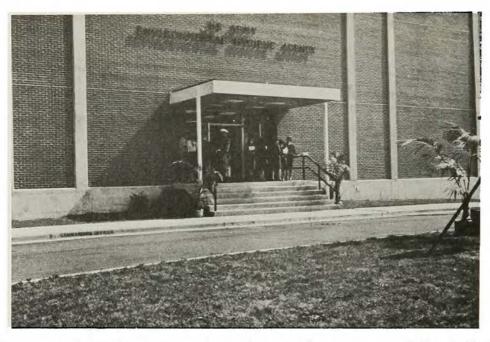


The Ordnance Museum at Aberdeen Proving Ground has many things of interest such as this 75-ton German heavy tank "King Tiger," mounting an 88-mm gun.



Aberdeen Ballistics Instrumentation Laboratory

WUB432 (cont'd)



Environmental Hygiene Center at Edgewood constructed by Baltimore District.



Other Corps construction projects at Edgewood include this 64-man bachelor officers' quarters.



Resident Engineer Office, Edgewood



In a July 1974 visit our photographer caught these members of the Aberdeen-Edgewood staff: George Nicolaidis, project engineer; Susan L. Webb, clerk-steno; Karen D. Jennings, clerk-typist; and Harold S. Collinson, resident engineer.

WUB 433

HARRY DIAMOND LABORATORY, ADELPHI, MD.



Harry Diamond is an ordnance research laboratory named after the WWII scientist who developed the proximity fuse.



Shown operating the VHF station is Sara Mary Calhoun.

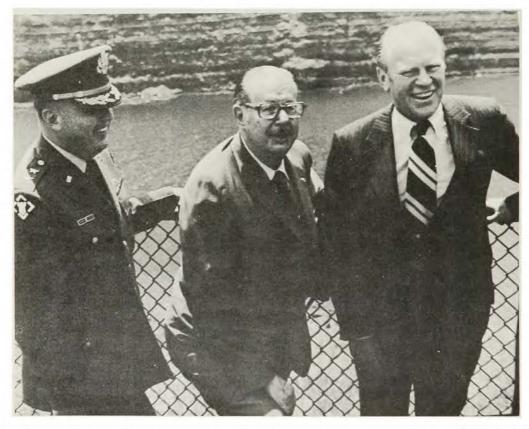


Other operators include Kathy A. Kearney and . . .



Linda K. Earley. The equipment is a Motorola Consolette base station.

WUB 434 RAYSTOWN LAKE, HESSTON, PA.



Dignitaries at dedication of the Raystown project on 6 June 1974 included Major General Richard H. Groves, Division Engineer, North Atlantic Division, Corps of Engineers, New York City; Senator Hugh Scott of Pennsylvania; and Vice President of the United States, Gerald R. Ford.



Robert W. Bell, Park Manager, supervises recreational and other activities at the 27-mile-long lake and adjacent park area.

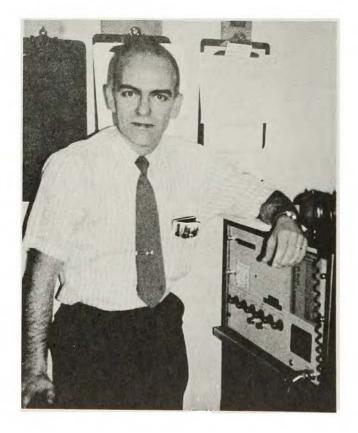


Park Administration Building

WUB 435

NATIONAL WEATHER SERVICE, HARRISBURG, PA.





Above: O. D. White, Chief of River Forecast Center, National Weather Service, Harrisburg, Pennsylvania.

Left: Mike Gwinner, National Weather Service, Harrisburg.



Left: Federal Building, Harrisburg, where National Weather Service and WUB435 are located.

Below: Harrisburg is subject to flooding during extreme river stages on the lower Susquehanna. This picture was taken during flood resulting from tropical storm Agnes, June 1972.



WUB 436 BLOOMINGTON LAKE, MD. & W. VA.

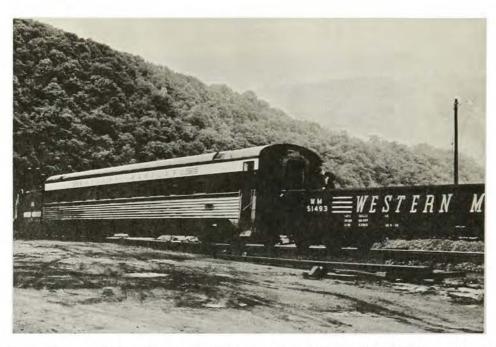






Above: Sandstone and shale core removed from one of two 36-inch-diameter calyx holes drilled to investigate foundation for spillway at the Bloomington project.

Left: In July 1970 engineers and geologists descended (one at a time) into the 200-foot-deep calyx holes to make visual inspection of the foundation conditions.



Relocation of the Western Maryland Railway facilities to permit construction of Bloomington dam required construction of 11 miles of new track and 6 bridges.



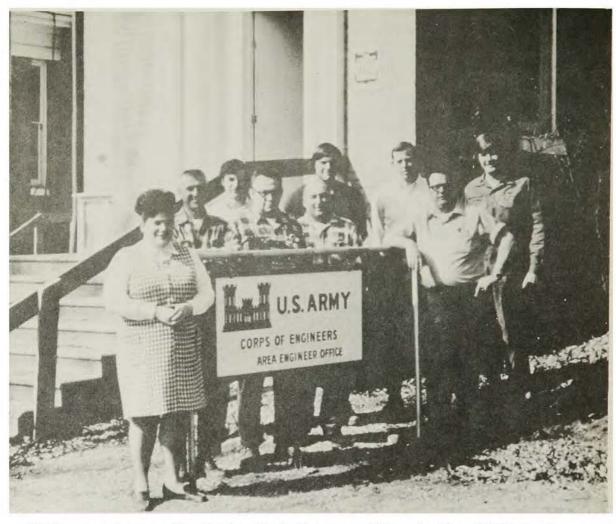
The Elklick Run Bridge constructed as part of the unit 1 contract.



Left: Robert W. Craig, Area Engineer, Upper Potomac Area.

Below: Historic house in Bloomington, Maryland, where area office was located during initial contracts for the Bloomington project.





This was the staff of the Bloomington office in May 1972 during the second year of the railroad relocation work. The employees, from left to right, were:

Shirley Green, clerk typist; John Dudiak, field engineer; William Haines, trainee; Everett Kissinger, inspector; Bernard Tilton, inspector; David Demaree, laboratory technician; N. Russell Newman, office engineer; Robert Craig, Area Engineer; Captain Kurt Rhymers, military assistant.



This model shows how Bloomington Dam and the lake will look when the project is completed. The earth dam is shown at left center, the control tower is in the lake just above the dam, the concrete spillway is just to the right of the dam, and the dike can be seen to the right of that. The damtender's dwelling, shop, office, and radio station will be on the West Virginia shore to the left of the lake; the Western Maryland Railway follows the Maryland shore of the lake at the right. An access road is shown crossing the dam and spillway from left to right.



Radio operators at the Area Office include Shirley Green, and

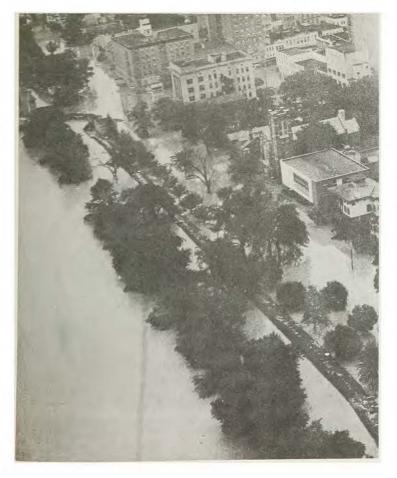


Silvia Guthrie.

WUB 437

SUSQUEHANNA AREA OFFICE WILKES - BARRE, PA.





Above: Placing sandbags on Wilkes-Barre levee, June 1972, in futile attempt to prevent overtopping.

Left: Aerial View of downtown Wilkes-Barre after levee had been overtopped and entire area flooded. Picture taken after water had started to subside and levee is again exposed.

WUB437 (cont'd)



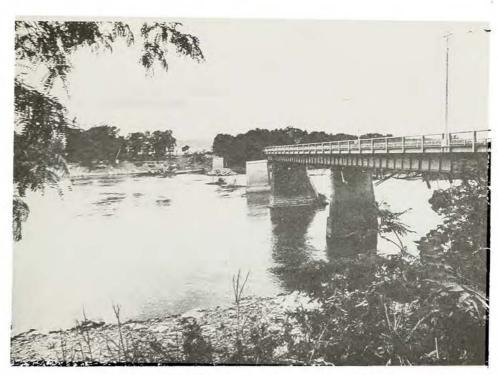
The Corps of Engineers was on the job even before the water receded. Major Gerald Vick, left, was made Area Engineer for the Wilkes-Barre Area.

Below: Emergency communications were established at Flood School. Sgt. Patansky, Capt. Simms, and Ike Feiges, from the District Office in Baltimore are shown tuning a Magnavox GRC-106 sideband transceiver.

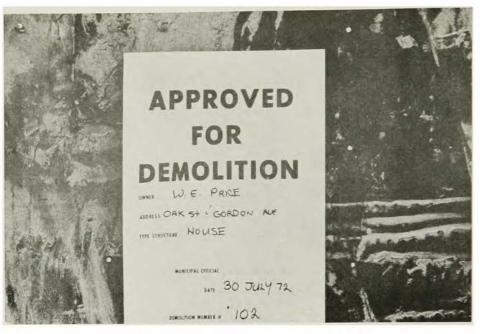




When the flood waters receded, it was found that many buildings looked like this West Side home in the Wyoming Valley.



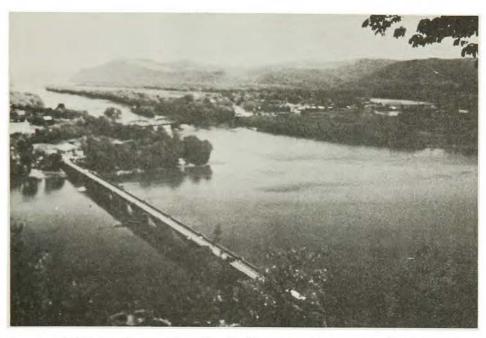
And several bridges like North Street in Wilkes-Barre were out of service.





Above: Buildings damaged beyond repair were a menace and had to be removed.

Left: The big claw made quick work of condemned structures, but it was a pitiful sight to the owners.



Some communities along the Susquehanna were more fortunate. Although the river reached record heights at Sunbury, the wall was not overtopped.



Residents expressed their feelings in big letters.

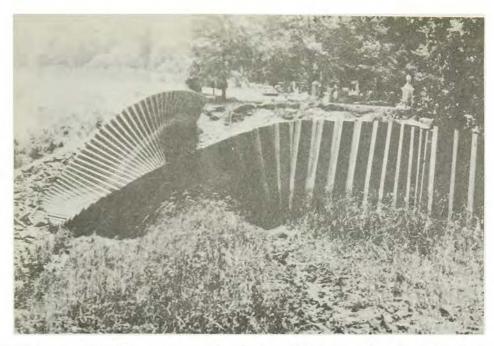
WUB437 (cont'd)



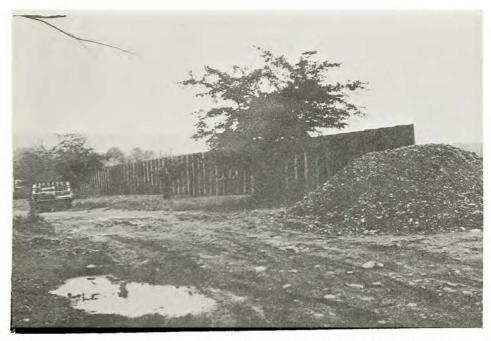
Housing had to be provided for the homeless. Trailer sites were located and utilities provided by the Corps. Major Cook of Area Office checks progress.



A completed trailer site at Old Forge, Pennsylvania



Valley residents were wary of a second flood and demanded prompt restoration of levees and flood walls like this one at Forty Fort, Pennsylvania.

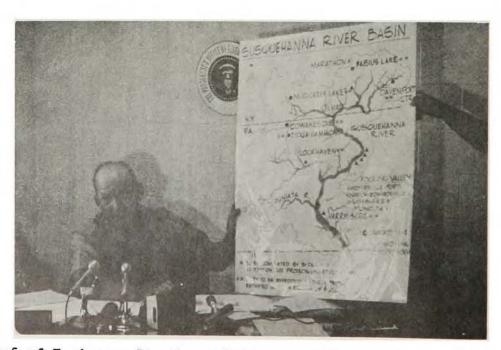


Within a few months nearly all facilities had been restored.

WUB437 (cont'd)



The restoration and relief work in Wyoming Valley attracted National attention. President Nixon and Chief Domestic Advisor John D. Erlichman, right, visit Wilkes-Barre to get a firsthand view.



Chief of Engineers Lt. General Frederick J. Clarke also visits the site and meets the local press.

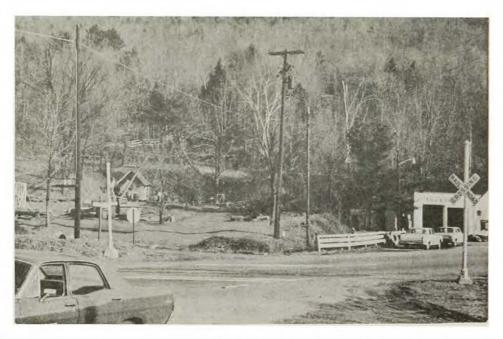


Radio operators (1974) at WUB437 are Betty Jane Tokach . . .



and Carol Lawson.

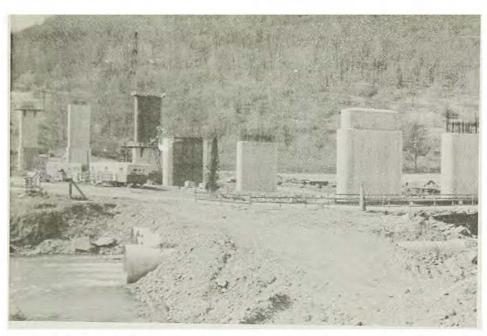
WUB 438 TIOGA - HAMMOND LAKES, TIOGA, PA.



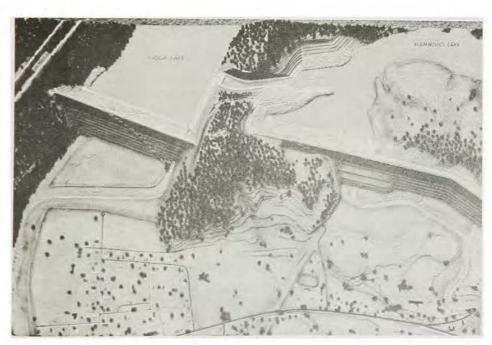
East end of Tioga Dam will be founded on this hillside.



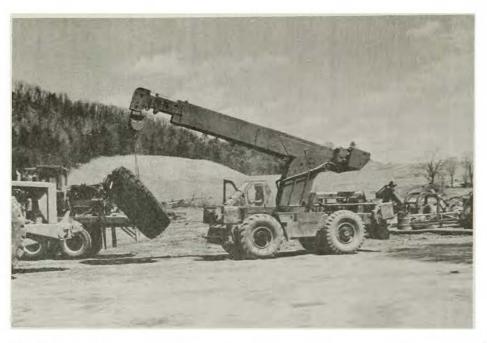
Present residents of the construction area resent the invasion.

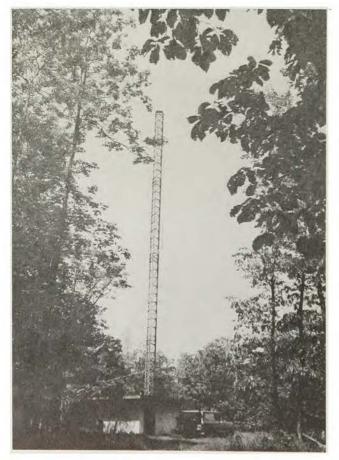


Before the dams could be built, U. S. 15 had to be relocated. These piers, shown under construction in May 1974, will carry highway across Mill Creek.



When completed, the project will look like this model—Tioga Dam and Lake on the Tioga River at left and Hammond Dam and Lake on Crooked Creek, right. The connecting channel can be used to equalize the levels in the two lakes as required.





Above: Changing a tire on the construction equipment is no boy's job.

Left: Space for the VHF antenna is rented on this commercial tower.

Application for an FCC station license for the Tioga office is pending. Eugene L. "Mac" McDaniel will be the station custodian.

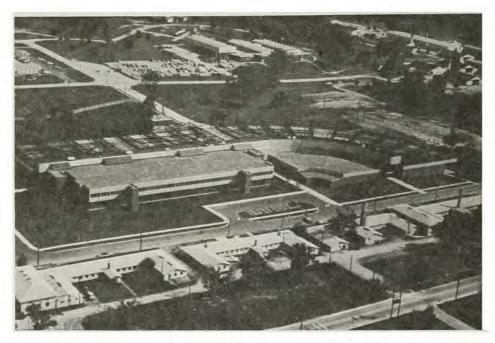


One of the voices heard from WUB438 is that of Mrs. Susan Connolly.



Shown in this May 1974 picture is another Tioga operator, Betty J. $01\mathrm{son}$.

WUB 612 FORT KNOX, KY.

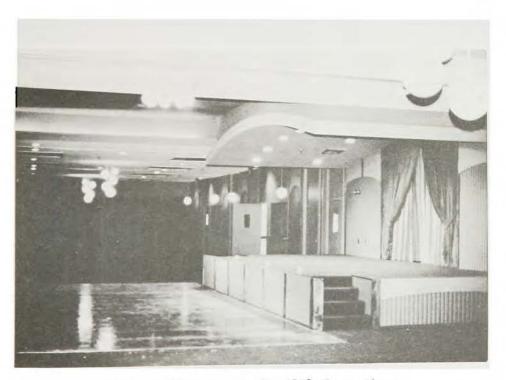


Weapons Training Facility, Fort Knox

The facility was designed by Sverdrup and Parcel & Associates, Inc., St. Louis, under supervision of the Baltimore District. The building provides for classroom, laboratory, and administrative space for the Armor School. Unusual in design, the roof is supported by exposed trusses which can be seen in this view. The building, which was constructed at a cost of about \$6 million, was named winner of the Corps 1973 Architectural Design Awards Competition.



Other Corps construction at Fort Knox includes the Non-Commissioned Officers' Open Mess.



Main ballroom of the NCO Open Mess

WUB612 (cont'd)



Area Office personnel, December 1971 (left to right): Kenneth W. Johnson, Kenneth C. Doll, LTC Elwood B. Nichols (Area Engineer), J. T. Robertson, Edward M. Grigsby, Benjamin H. Monarch, Andrew J. Cairns, and William T. Johnson.



Left: Major
A. R. Janairo, Area
Engineer, Kentucky Area,
Fort Knox.

Below: Mrs. Dorothy C. Goodman, Radio Operator.



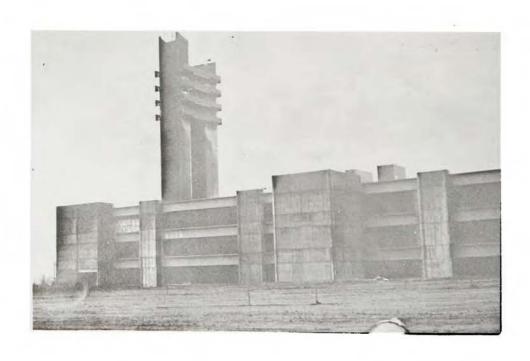
WUB 613

WRIGHT - PATTERSON AIR FORCE, DAYTON, OH.



Left: Air Force Institute of Technology, completed 1965.

Below: Science Laboratory, Avionics.



WUB613 (cont'd)



Area Office staff, April 1972 (left to right):

Front row: Linda Wakefield, Archie B. McDaniels, Dwight Phillips.

2nd row: Herbert L. Neff, Wilma Clark, L. Harkleroad, Frank Lewis.

Back row: James H.
Blanchar (Area Engineer),
Bill Webb, John Woodhouse,
John Monesmith.



Area Office is located on first floor of this building at far end.

WUB 614 FORT BELVOIR, VA.



Chief of the Capital Area Office is Mr. Ira Reed, Area Engineer.



Morgan Fink helps make up the area office staff.



Kingman Building. This \$3.9 million building, completed by the Corps in 1973, houses the U. S. Army Coastal Engineering Research Center, the offices of the Board of Engineers for Rivers and Harbors, and the U. S. Army Engineer Institute for Water Resources.



Other corps construction includes MacKenzie Hall, the officers' open mess.

WUB614 (cont'd)

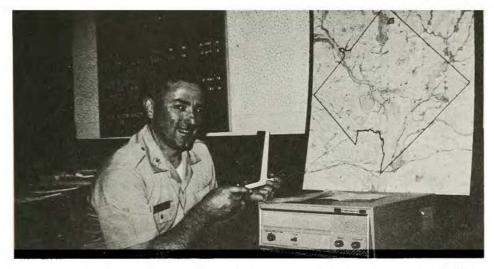


Among other duties, Mrs. Jean P. Medlin finds time to operate the radio station.



Another trained operator is Gigi Thomas.

WUB 615 FORT MYER, ARLINGTON, VA.



Resident Engineer at Fort Myer is Major Charles W. Solliday.

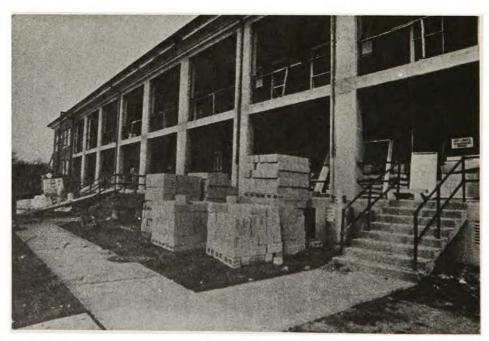


Radio operator, May 1974 is Donna Smith.

WUB615 (cont'd)



Unlike Korea or Viet Nam, the noncommissioned officers at Ft. Myer live in high rise apartments.

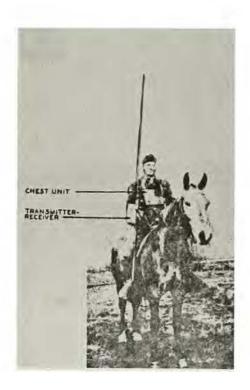


Modernization of enlisted men's barracks, March 1974.

MOBILE AND PORTABLE STATIONS

The Baltimore District has more than 200 mobile and portable radio stations. To separately describe each of these would be impractical in this historical summary. A few typical units, however, are listed on the following pages.

WUM 2790



After adoption of the "WUM" call signs for portable and mobile units, one of the first call signs given the District was WUM2790 in July 1950. The first portable units the District obtained were surplus WWII units including the SCR-511 cavalry units shown at left. These had a rated output of 3/4 watt and operated in the high frequency band.

The equipment consisted of a chest unit with a strap that went around the operator's neck. The microphone was a part of this unit. The transmitter-receiver unit had a staff extending down which could be strapped to the saddle and the 10-foot telescoping vertical antenna on top. Change of frequency was accomplished by interchanging small plug-in coil and crystal tuning units.

WUM2790 (cont'd)



Willard Prentice with Model H23-10 walkie talkie

The first commercial walkie talkies purchased by the District were a pair of MOTOROLA 1-watt, Model H23-10, partially transistorized, VHF sets in March 1957. These were used by District survey parties for 12 years and were retired in 1969. Their major disadvantage as compared with the fully solid state sets, which had meantime become available, was that they weighed 9 pounds as compared to 2 pounds for a 5-watt fully transistorized unit.

WUM 3800



WUM3800 is the District Engineer's vehicle. Present (1974) DE is Colonel Robert S. McGarry, who came to Baltimore from European duty in June 1973.



Previous District Engineer (left) was BG (then Col.) Louis W. Prentiss, Jr.

Driver for both Col. Prentiss and Col. McGarry has been John H. Grant (standing at right, below). In addition to driving, John assists in many ways—especially on trips throughout the District. He is shown here assisting former Real Estate Division Chief Malcolm F. Steele at a public meeting.



WUM 3801



Driver for the Deputy District Engineer is Leo J. Kerrigan, who has received 21 safety awards for 21 years and some 500,000 miles of no-accident driving. Leo has also received awards for his duckpin bowling in the Engineers' Bowling League. Shown holding their trophies at the end of the 1959-60 bowling season are Leo (high men's average) and Dolores (Petie) Morgan (high women's average), secretary in the Military Branch.

WUM3801 (cont'd)



An officer who made extensive use of the District's VHF system was LTC Gerald M. Boyd, who was deputy from 1969 to 1973. He is shown here with friend Miss Jayne Sato at a dinner-dance sponsored by Local 639, National Federation of Federal Employees (NFFE) at Eudowood Gardens in 1970.

Present deputy is LTC Roger T. Kepler, right, who came to the District in 1972 from duty in Viet Nam.



WUM 3802



This vehicle is assigned to the Deputy District Engineer for Civil Works, who at present (1974) is LTC Graham J. Norton. He is shown here (left) at a meeting in the field with Colonel McGarry, District Engineer, who is about to sign the Fourmile Run construction contract on the back deck of the car.

While stationed as an Army advisor at LaPaz, Bolivia, from 1965 to 1967, Colonel Norton was licensed as an amateur radio operator and was given the call sign CPIFQ.



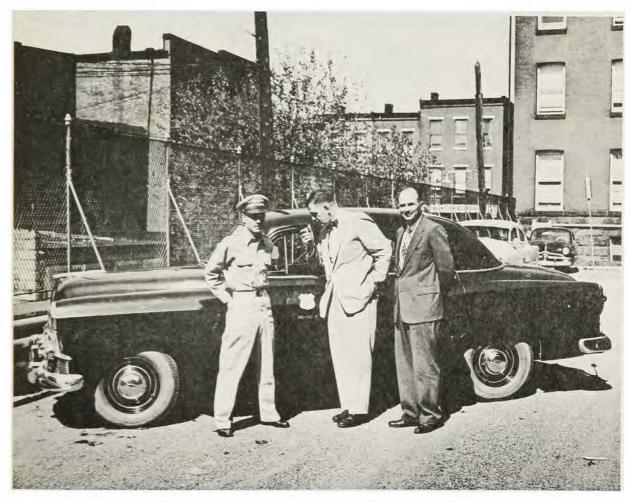
Driver for LTC Norton is Howard Johnson. Howard has been with the Corps three years and claims no relationship to the motel and restaurant chain by the same name. The car is a 1972 Chevelle, and the radio equipment consists of a Motorola Micor set for communication with the District's VHF net and a Bell System radio telephone for communication through telephone circuits.

WUM 3810



Electronics Technician Isaac (Ike) Feiges is the District's trouble-shooter when it comes to sideband radio equipment. From West Virginia to New York--wherever there is a problem with the flood-control net--Ike is soon on the job.

Born in Rumania, Ike came to the States in 1951. He received his technical training at the Radio Electronic Television Schools in Baltimore and worked in the Communications Division of the Bendix Corporation before coming to the District in 1971.



This mobile unit, a part of the District Office motor pool, came into prominence on 19 August 1955 when hurricane Diane hit northeastern Pennsylvania and dumped some 11 inches of rainfall on much of the Lackawanna Valley. The unit provided the principal communication link out of the valley during the initial stage of the disaster. Shown here, in a picture taken several weeks later, are LTC John A. B. Dillard, who was placed in charge of disaster recovery in the Scranton area; Thomas P. Whelley, who operated the mobile unit; and Willard J. Prentice, District Radio Station Director.

The AM communication equipment in the vehicle was built by Kaar; the antenna was a Master Mobile.

Jack Dillard later became a Major General and was killed in Viet Nam in May 1970

WUM3811 (cont'd)



Hurricane Diane in 1955 left this muck at Washington Avenue and Hickory Street in Scranton.



Debris piled on Elm Street in Scranton. Cleanup and restoration work by the Corps was labeled "Operation Noah."

WUM3811 (cont'd)



Left: Another frequent operator of WUM3811 was civil engineer Albert H. Bright, who served in various positions in the District from 1946 to 1968, when he retired.

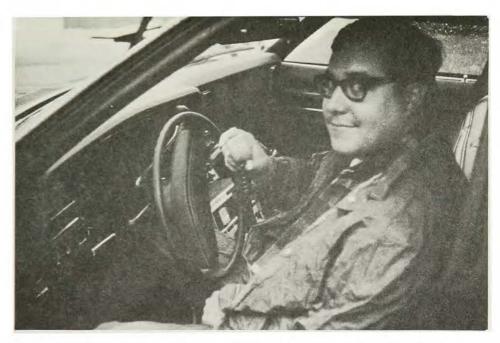
Below: U. S. 11 bridge at Moasic, Pennsylvania, washed out by hurricane Diane.





For 20 years the call sign WUM3812 was synonymous with James P. (Jim) Weaver, the District's dean of construction engineers, who retired in 1974 after essentially completing his final assignment—Resident Engineer, Raystown Dam.

During Hurricane Diane in 1955, the first District mobile unit to enter the disaster area was WLM3812 driven by Jim Weaver, then Resident Engineer on the Williamsport local flood-protection project. Jim remained in the Scranton area for the next several months and supervised much of the reconstruction undertaken by the Corps.



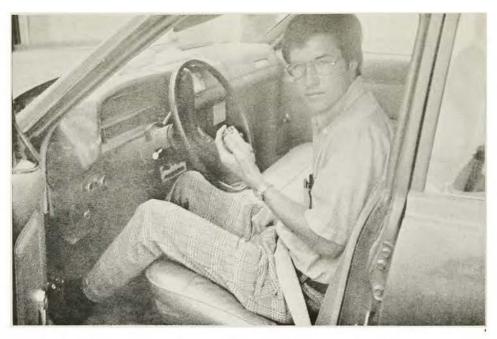
Present (1974) user of the mobile unit is John M. Hunter, Raystown Resident Engineer.



This sideband-equipped mobile unit is assigned to Edward S. Potoczak, Chief, Maintenance Branch, Whitney Point, New York.



LTC Charles W. Brylla, Area Engineer, Bay Area, with headquarters at Fort George G. Meade, Maryland.



Albert Scheller is shown driving vehicle with VHF unit assigned to Harry Diamond Laboratory.



This vehicle transports one of the slave stations for the Hi-Fix system. The system consists of three transmitting stations—the master station which is on the survey boat MARVADEL and the two mobile land stations. By positioning the two land (slave) stations on points of known geodetic position, the location of the boat carrying the master station can be determined. The equipment operates on a frequency of 1744.72 kiloHertz. The vehicle also has Motorola VHF equipment for voice communications with the MARVADEL (AEKW).



This VHF-equipped unit of the Operations Division operates principally in the tidewater area on inspections and law-enforcement activities. When photographed, the driver was Inspector Gilford J. Medeiros, accompanied by Robert J. Fleming.



Area Engineer Robert W. Craig of the Upper Potomac Area transferred to Baltimore from the Jacksonville District in 1968. In Baltimore he worked in the Engineering Division for two years before shifting to Construction. The Bloomington Lake project of which he is in charge has the dubious reputation of being the most inaccessible site of any of the current projects.

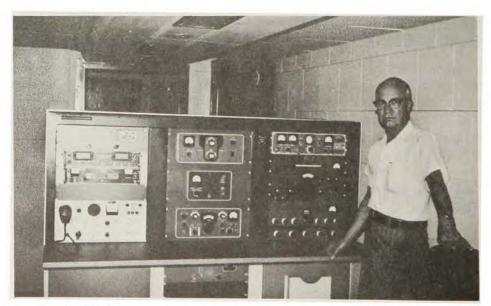
The station wagon is equipped with VHF radio for local calls and a single sideband unit for long-distance communications.

K 3 U S A A A 3 U S A

MARS TRAILER



Emergency Communications trailer maintained at Fort George G. Meade by Eastern Area Army MARS has capability of operating on Baltimore District high frequency channels.



William J. (Bill) Miller, A3NST, technician and chief operator of the emergency unit, displays equipment inside the trailer.



Resident Engineer for military construction at Aberdeen Proving Ground and Edgewood Arsenal is Harold S. Collinson.

Vehicle is equipped with a Motorola Micor VHF unit.

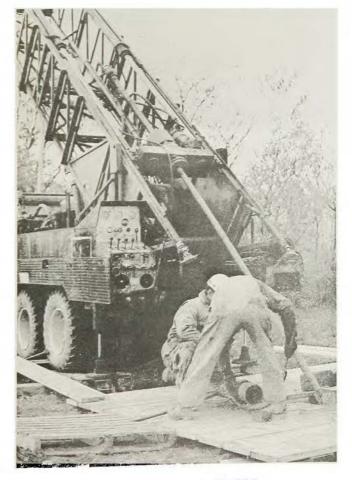


This International Scout, used by inspectors checking on drilling operations, is equipped with a single sideband transceiver for communication with Baltimore headquarters.



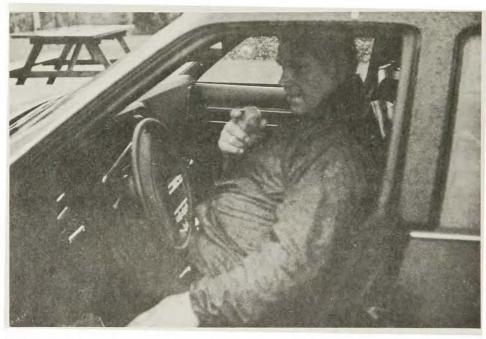
Auger boring to get samples of foundation material.



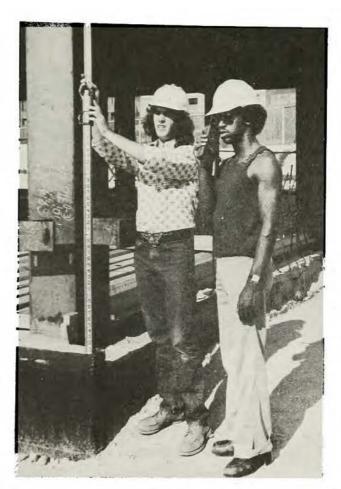


Above: Drilling 6-inch-diameter rock core at 52-degree angle to get samples for testing of clay seams at Tioga-Hammond Dams.

Left: Closeup of drill rig.



Mobile unit 8025, equipped with both sideband and VHF units, is used by John F. Rogalla, Area Engineer, Susquehanna Area.



Surveymen Ed Lohr (holding level rod) and Rodney Hill (holding walkietalkie) demonstrate use of portable sets in survey work.

Set is a model 204 AM unit made by E. F. Johnson Co. These 1.5-watt sets operate on the Government-usage frequency of 27.575 MHz.



The District's Emergency Operations Planner is Mr. Amos P. Potts, Jr. Amos transferred to the District from the Ohio River Division in 1967 and was appointed to his present position in 1969.

The walkie talkie is a General Electric model PR36 VHF set with $4\ 1/2$ watts power and has a rechargeable battery pack.

THE VOLUNTEERS

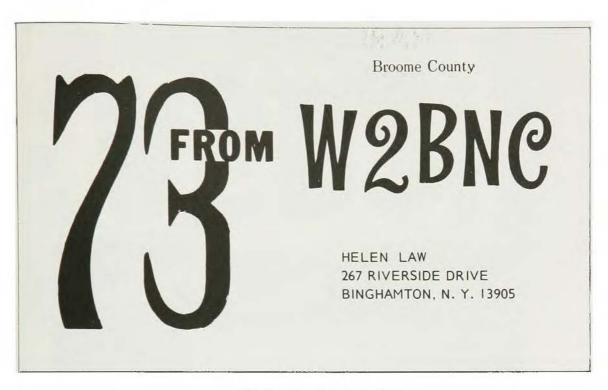
As discussed in the text, the operators of many amateur and MARS stations have contributed much time and effort to assist the Baltimore District during major emergencies and in training for such emergencies.

There is no available record of all of these volunteers. Those currently active, plus a few whose deeds were outstanding, are included in the following list. The current operators were invited to submit photographs for this publication. Photographs furnished in response to this request are included herein.

W 2 B N C A 2 B N C MRS HELEN B. LAW BINGHAMPTON, N.Y.



Helen with OM (Old Man, in Ham talk) Fred, K2AG. Helen has been a licensed amateur since 1950 and a regular S.E.N. participant since 1958. She has assisted in at least two natural disasters including tropical storm "Agnes" and handled messages for Service personnel during the Korean War.



Helen's QSL card

BING HAMTON, N.Y. SCHENEGTABY, N.Y. 1000 LEXINGTON PARKWAY 267 RUGESIRG DR.
246
RADIO CONFIRMING QSO OF 19 AT AT MEST UR MC. FONE SIGS RST MEST UR W. INPUT RCVR: PSE QSL DM. TNX. 73 FRED B. LAW

Fred's QSL card

W 2 B S K A 2 B S K

CHARLES P. CARTER CORTLAND, N.Y.



Charles P. (Chuck) Carter

Chuck has been a member of S.E.N. since 1954 and served a term as net control. If records were available, they would probably show that his participation in net drills has been unsurpassed since he became a net member.



Chuck's QSL card



Looking upstream on the Tioughnioga River at Cortland towards Interstate 81 bridge.

W 2 C N A FERRIS W. WOLFINGER BINGHAMPTON, N.Y.



Ferris W. Wolfinger was one of the pioneers in radio and television in the Binghamton area. As noted in the text, section E, it was he who made the first installation of radio equipment at Whitney Point Dam in 1948.





Above: Wolfinger's QSL card.

Left: His tower and beam antenna.

WA2UCY

AD2UCY

CHARLES V. LUNDSTEDT PRINCETON JUNCTION, N.J.



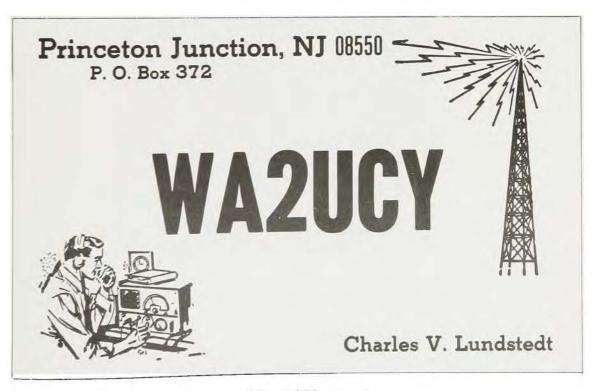
This 1973 picture shows Charlie in the shack (1) operating his rig (2) on CW (3) with an electronic bug (4) or keyer. One can't help but wonder what holds up the rig when Charlie has to refer to one of the books that furnishes support for the north half of the equipment.

Charlie has won both ARRL $^{(5)}$ and MARS $^{(6)}$ certificates for 20 words per minute code proficiency, and he is a member of the Quarter Century Wireless Association.

- (1) Shack: Room where radio equipment is housed
- (2) Rig: The transmitter and receiver
- (3) CW: Continuous wave; International Morse code
- (4) Bug: A telegraph key where the hand motion is horizontal rather than vertical
- (5) ARRL: American Radio Relay League
- (6) MARS: Military Affiliate Radio System

WA	30WA
La	anham, Maryland 20801
	Radio Confirming our AM-CW-SSB QSO At ST-GMT on 19 On Rcvr. Rcvr. Xmtr. W. Inp Ant. Remarks Pse QSL Tnx
9865 Good	Luck Rd., Apt. 7 73, Charles Lundstedt

Charlie's 1970 QSL card



The 1974 yersion

WB2WRB

AL2WRB

HAROLD T. WASHBURN WELLSBURG, N.Y.



Harold and XYL* Betty on a 1972 visit to the Baltimore area to attend the annual flea market of radio equipment at Calvert Hall College in Towson.

WB2WRB (cont'd)



Not to be outdone by certain S.E.N. members who tend to brag about their horticultural accomplishments, Harold told the net that he could grow bananas in Wellsburg, New York, in midwinter and sent this picture of wife Betty eating fruit picked from a Jack Pine said to have been crossed with a banana tree.

Harold has been an S.E.N. member since 1969, and at present (1974) is net control.



Harold's station at Wellsburg furnishes the District Office information on river stages at nearby Elmira, one of the cities hardest hit by tropical storm Agnes in June 1972.



This picture taken on 23 June 1972 shows the St. Joseph's Hospital area of Elmira inundated by flood waters.

Wellsburg, CHEMUNG CO.

New York

VB2VRB

Station
AA3WAZ APR. 21,1974 1330 Z 5-9 4025

Revr. Xmtr. Ant. INV. V. Pse QSL(Inx)

GALAXY 300
900 B

Harned

Harold's QSL card

73, Harold T. Washburn

Box 230-A

W 3 A F R A F 3 A F R

GEORGE M. HANNAH DECEASED





George was born 4 August 1892. The picture above is not dated, but Mrs. Hannah has his Commercial Radio operator's license (first grade) dated 6 March 1914.

It appears that George served in three of the armed services. He had Navy training at Pensecola about 1917 or '18 and became chief radio operator on the flagship LOUISIANA. Later we find him in the uniform of the Army Air Force, and in correspondence with MARS in November 1951 he signed George M. Hannah, Lt. Col. USAFR.

W3AFR (cont'd)



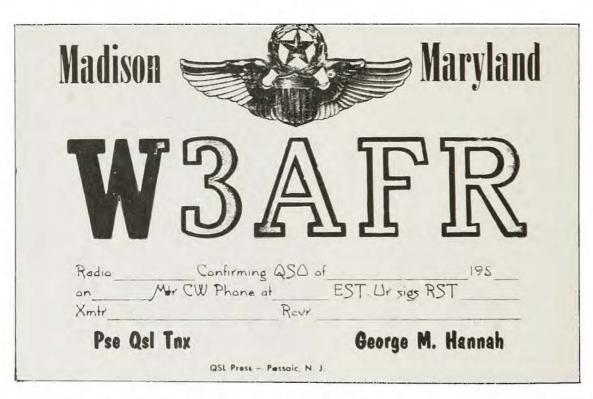
George apparently moved to Maryland in the early 20's as we find a station license for W3AFR dated 20 October 1924, which was signed by Herbert Hoover, Secretary of Commerce. His friends in later life remember him as he appeared in picture at left taken in May 1950.

George's station on Koppelman Lane in Baltimore after WWII included a BC-610 transmitter and a couple of Hallicrafters receivers. From this station he participated regularly in the S.E.N. and the Maryland Emergency Phone Net.





George's Baltimore QSL card



George retired to the Eastern Shore of Maryland and died 5 April 1964

K3AKN

AA3AKN

WAYNE L. LEITER THOMPSONTOWN, PA.



Wayne has been a licensed amateur since 1957 and a member of the Susquehanna Emergency Net since 1959. He is shown here with his radio equipment including a Heathkit HW-12 transceiver, which he uses on the net. Since Wayne retired, he finds more time for radio activities.

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			P. RCVR. HIV	
TENEDO A	100/6	200 W. IN.	P. RCVR.	
XMTR.	NX 73	glad to cos	is for the	ounty

Wayne's QSL card shows Mifflintown as the home address, but, since these cards were printed, he has moved to Thompsontown, Pennsylvania.

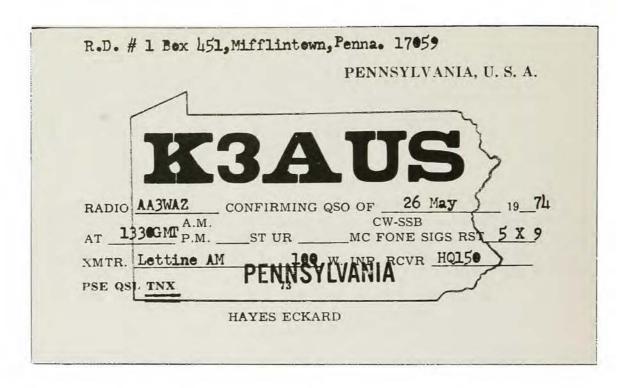
K3AUS AA3AUS

HAYES W. ECKARD MIFFLINTOWN, PA.

Hayes Eckard has been an S.E.N. member since about 1959. He is one of the few members who not only transmit the river-stage reports, but actually go down to the river and read the gage in person. In fact, Hayes was instrumental in getting an official river gage installed on the bridge between Mifflin and Mifflintown.



Hayes, shown here at his station, has been a licensed amateur since 1958 and an S.E.N. member since about 1959. He was active during the 1972 flood.



This is Hayes' QSL card.

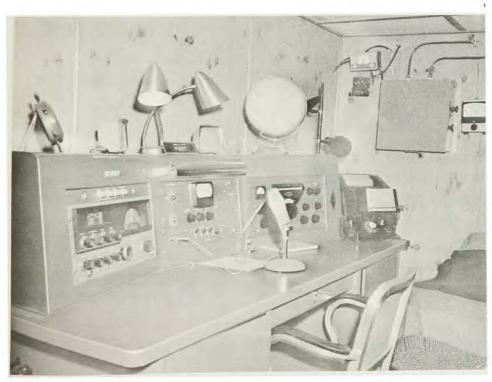
W 3 B B V

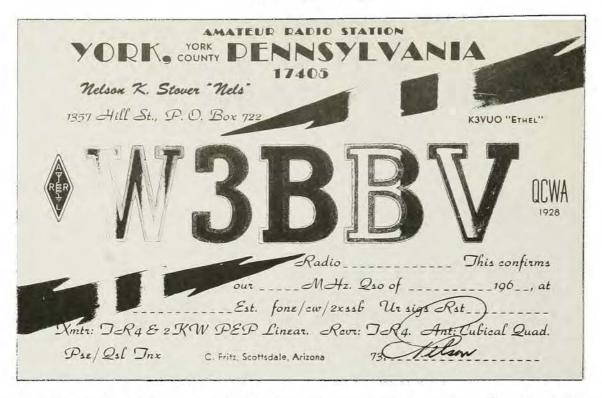
NELSON K. STOVER YORK, PA.



Nelson K. (Smokey) Stover, left, has been a licensed amateur since 1930. He joined the S.E.N. shortly after it was organized. He participated in several flood emergencies, and received numerous ARRL awards. For several years he served as Pennsylvania State RACES officer. He passed the FCC Extra Grade examination at age 61. After retiring, he and wife Ethel moved to Florida where they are licensed as W4QC and K4QCA, respectively.

Below: Operating console in their shack.





Nelson's old QSL card when he lived at York, Pennsylvania. It was while living here in 1948 that he installed one of the District's first stations, WUB42 at Indian Rock Dam.

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WAQC OM "+,"	INPUT 7 1 LL
KAQCA XYL CO	O OTC
RST	OTC
190 DEERFIELD AVE.	Q \Z ARRL
PORT CHARLOTTE,	QCWA
FLORIDA 33952	AE-3-543
REMARX	
	NELSON STOVER
Pse QSL/TKS T	HE THEL STOVER

Present combined QSL card used by Nelson and wife Ethel at Port Charlotte, Florida.

W 3 B H K A 3 B H K

J. WILLIAM BENNETT SPENCERVILLE, MD.



Bill Bennett and wife Elmira as they appeared on a 1972 Christmas picture. Bill's radio experience includes several years as a ship's radio operator. He has assisted in many disasters and can be counted upon in any emergency. He has been an S.E.N. member since 1948. Bill converted a retired transit bus into a mobile radio station and can move to a disaster area on short notice.



This is the bus in which Bill has his station, the W3BHK Emergency Communications Center. The bus is built on a 1944 White chassis.



Bill's old QSL card in Washington before moving to his present location in Spencerville, Maryland.

K3DDV

AA3DDV

LTC IRVING J. LIPTON CARLISLE, PA.



Irv has been a licensed amateur since 1955 and an S.E.N. member since 1958. He is shown here with his principal equipment consisting of (left to right) Yaesu FTdx400 transceiver, VFO, Collins KWM-1 and Swan 175 transceivers, and B&W linear amplifier. Irv can also operate from his travel trailer when on the road.



This is the QSL card that Irv sends out from his Carlisle headquarters-

K 3 D Y U A A 3 D Y U

LTC EDWARD A. LUKAS KINGSTON, PA.



Ed was one of the first S.E.N. operators to notify the District Office of flood conditions on that fateful and fearful night of 22 June 1972, when Tropical Storm Agnes struck the Susquehanna Valley. Soon after sending the alert, Ed had to abandon his quarters, and his basement "shack" was completely flooded. This 1974 picture shows him and his restored station.

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		VII
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		I SSB QSO of 19
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	Mc. signals we	
at G.M.T. Your	Mc. signals we	ere RST Revri
at G.M.T. Your	Mc. signals we	ere RST

Here is Ed's QSL card.

W 3 E C P A 3 E C P

COL. EDWIN S. VAN DEUSEN DECEASED

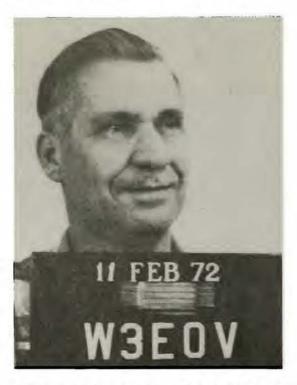


Colonel Edwin S. Van Deusen was born in Fort Plain, New Jersey, in 1894 and died in Walter Reed Medical Center, Washington, in 1973. He spent most of his adult life in the Army, serving both in WWI and WWII, until retiring in 1953.

Van's interest in radio began in 1903, and he received his W3ECP call sign in 1933. He became a MARS member in 1949, and was Maryland State MARS Director for 20 years, 1951-71. He served a term as vice director of the American Radio Relay League, and he was active in other amateur radio activities.

W 3 E O V A 3 E O V

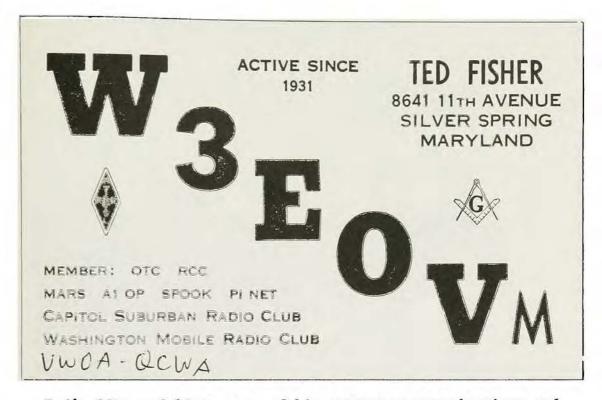
C. TED FISHER SILVER SPRING, MD.



Ted has been a licensed amateur since 1931, has had a first-class phone and CW commercial radio license since 1944, and has been a member of S.E.N. since 1955. Located in the Washington metropolitan area, he is available to handle traffic to or from the Eastern Area Headquarters of the American Red Cross, the National Weather Service, and other Washington based emergency organizations.

His principal equipment consists of a Galaxy GT-550 transceiver for his base station and a Galaxy V for mobile use.

Ted has participated in numerous emergency operations including two hurricanes, lost children, a forest fire, and several floods.



Ted's QSL card lists some of his emergency organizations and activities.

W 3 G B B K 3 C N

WILLIAM E. COOKE JR. GLEN BURNIE, MD.



As noted in the text, section C, Bill Cooke was a seasoned radio operator before the Baltimore District received its first piece of radio equipment. In the late 1940's Bill received the Susquehanna Emergency Net reports at his Baltimore station W3GBB and made them available to the District Office. Later he moved to Glen Burnie and now has the call sign K3CN. This is a special call sign, with only two letters following the numeral, now issued on request to amateurs licensed 25 years who have passed the Amateur Extra Class examination—the highest grade in amateur radio.

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Bill Cooke's old Baltimore QSL card

WA3GUB BACO

BALTIMORE COUNTY CIVIL DEFENSE TOWSON, MD.



BALTIMORE COUNTY CD HEADQUARTERS, Towson, Maryland

J. Alan Nollmeyer, W3YVQ, RACES officer, left, and Colonel Edward (Ned) Murray, Deputy Director of Civil Defense for the county.



Tom Flavin plots road closures at Towson CD Headquarters during a county-wide exercise.

WA3GUB (cont'd)



Willard Prentice (standing), trustee for the CD station, and (seated) Ed Watson, operator, and J. Alan Nollmeyer, county RACES officer. Station uses tactical call sign BACO during drills and emergencies.



Charles O. Reville III, WA3LQV, radio teletype operator, and Pat Wright, messenger, at the Towson CD Headquarters.

WA3GUB (cont'd)



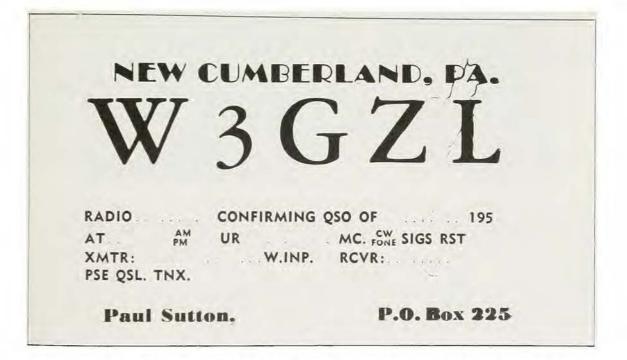
The CD station has separate units throughout the county. The central unit at Cockeysville Police Headquarters uses the tactical call sign CE. Shown here operating the 6-meter equipment is William G. Quinn, WA3RJG, left, while Richard A. Wilkinson, K3DVR, operates the 2-meter transceiver.



Another unit is located at the county Agricultural Science Building. Dick Wilkinson is shown here operating the two-meter equipment at this station, which uses the tactical call sign A-2.

W 3 G Z L

PAUL SUTTON DECEASED



From about 1954 to 1967 Paul was Meteorologist-in-Charge of the Harrisburg office of the National Weather Service. His membership in the S.E.N. provided a valuable tie-in for passing weather and flood information among the stations in the flood zone, the Weather Service, and the Baltimore District.

Paul, a University of Chicago graduate, had been a licensed amateur since 1934 and had later obtained his advanced class ticket.

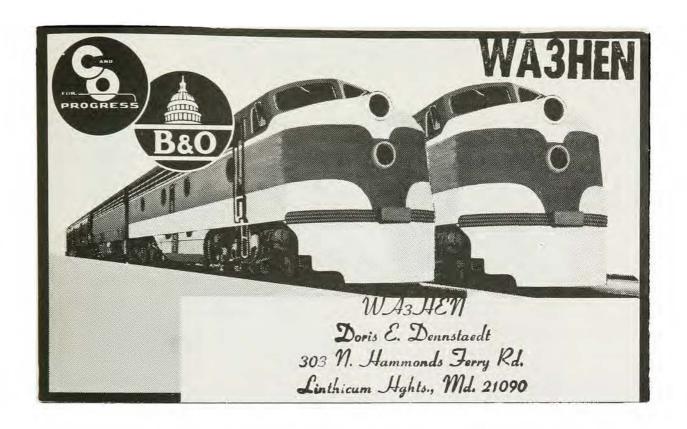
WA3HEN

AD3HEN

MRS DORIS E. DENNSTAEDT LINTHICUM HEIGHTS, MD.



Doris has been a licensed operator since 1967 and is one of the most active MARS operators in Maryland. At present (1974) she is administrative assistant to MARS Director, Eastern Area. She participates in all emergency activities (real or simulated). During tropical storm Agnes in 1972 she assisted the District in handling traffic and locating additional radio equipment for the disaster area. Her station equipment includes a Heathkit HW-12A transceiver for the 80-meter band and a GE FM unit for use on 2 meters.



Doris' QSL card indicates she is, among other activities, affiliated with the B&O-C&O Amateur Radio Club.

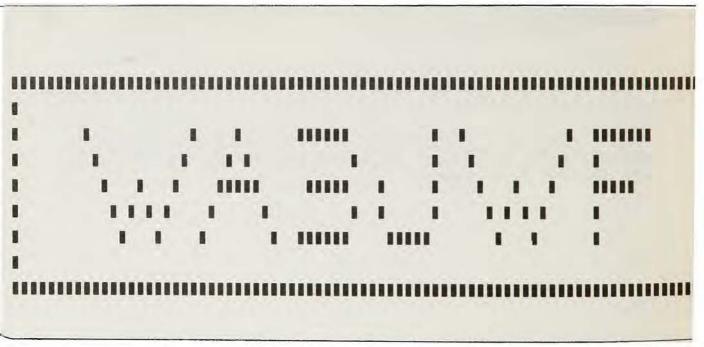
Doris' husband Adam Dennstaedt, K3TBD/AA3TBD, is also active in amateur and MARS activities. At present (1974) he is Assistant State MARS Director for Maryland.

WA3JWF

AD3JWF

CHARLES M. WAITE SHAVERTOWN, PA.

Chuck has been a licensed amateur operator since 1968 and has been an S.E.N. member since 1972. His principal rig is a Swan 350-C transceiver. His amateur activities include serving as radio-communications chief at the Dallas Senior High School RACES civil defense station. He has also been active in the Civil Air Patrol and the Shavertown Volunteer Fire Company.



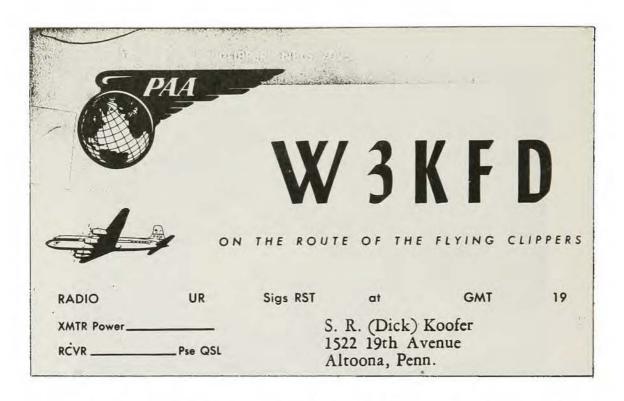
This punch card serves as Chuck's QSL card.

W 3 K F D A 3 K F D

S.R. "DICK" KOOFER DUNCANVILLE, PA.



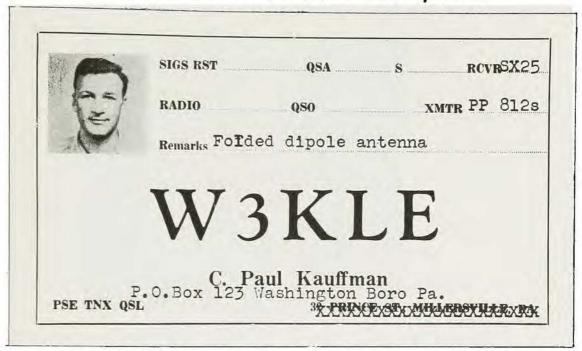
Dick has been an S.E.N. member since about 1955 and has participated in several emergencies. During tropical storm Agnes in 1972 his area was hard hit by the storm, but he continued operating even after water started flowing into the station.



Dick's QSL card shows he has also participated in Pan American Clipper nets.

W 3 K L E A 3 K L E

C. PAUL KAUFFMAN WASHINGTON BORO, PA.



During the 1950's and 1960's Paul was an active S.E.N. member and served as net control for several years until forced by ill health to retire from the net.

W 3 L Q Y

MRS. MARIANNE E. PAYTON BALTIMORE, MD.



Marianne has participated in many amateur activities and was an S.E.N. member for several years. Other amateurs in her family are:

Father Husband Lyle Bushong Phillip Payton

K3QOL/AA3QOL K3JOM/AA3JOM

	Catonsville 2	28, Maryla:	nd	
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K3	QOL		0 1	m
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	At 1875 RST 5-15	Xmtr /	CAR E	cw fone sig
(CARL	Revr 17 F	175 A	nt 1/2 4	a é cos
STAIR	Remarks Z	7 913	2 -	cilii)
	Pse QSL	Tnx - 103 B	irdwood	Ave.
There is a differen	Maria	nne & Lyle		

This was Marianne's QSL card in the early 60's.

W 3 Q P U A 3 Q P U

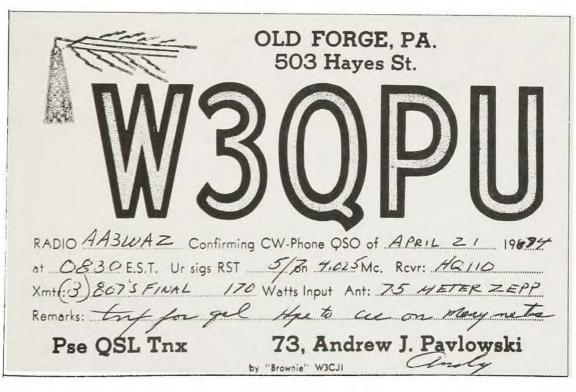
ANDREW J. PAVLOWSKI OLD FORGE, PA.



Andy was first licensed in 1935 (as W2JAQ). He is the oldest active S.E.N. member, having joined the net in 1937. For several years he served as net control. His station equipment shown above (in 1971) consisted of an HQ 110 receiver and a homebrew (i.e., homemade) transmitter. He has participated in numerous emergencies and received ARRL Public Service Certificates for his assistance during the November 1950 hurricane and the Northeastern floods of August 1955.



This 1974 picture shows that while Andy uses his microphone at times, he is still a code man at heart and keeps his bug in the foreground.



Andy's QSL card

W 3 U A

W 4 I P

CHARLES G. LANDIS BONITA SPRINGS, FLA.



Charlie Landis has been a licensed operator since 1915. Following the 1936 flood, he organized the S.E.N. By 1943 it had grown to a sizable organization as shown by this picture of members and families taken at Safe Harbor, Pennsylvania, in 1948. (Charlie and wife Peggy are at extreme left.)

Charlie has received many awards for his assistance as a radio operator including seven Public Service Awards from ARRL. He has received letters of commendation from CBS. NBC, and the American Red Cross.



Charlie Landis and wife Peggy have enjoyed retirement in Florida since January 1966.



Charlie was issued a new call sign when he moved to zone 4.

W 3 U S A A 3 U S A

FORT GEORGE G. MEADE, MD.

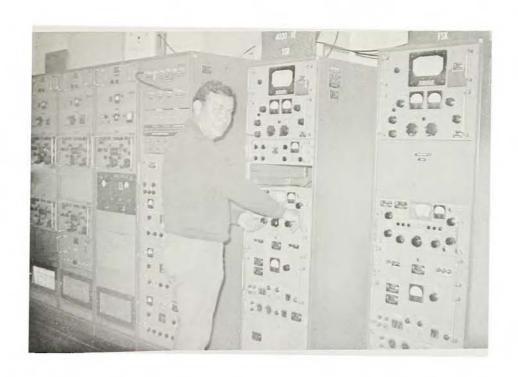


The Fort Meade tower proved of great assistance to the Baltimore District in 1972 as temporary radio communications were established to various damage centers following tropical storm Agnes.

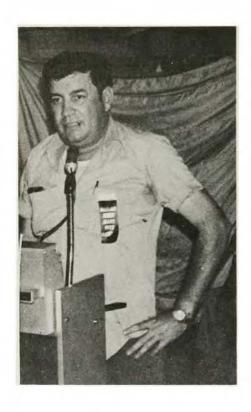


Left: A former (1968) chief operator at A3USA was John Matrau, A3DNM.

Below: Another station attendent (1974) is Lloyd H. Donelson.



W3USA (cont'd)



Left: Robert E. (Bob)
Sheridan, A3REH, is MARS
Director, Eastern Area, and,
as such, directs the activities
of the command station A3USA.

Below: Sgt. Gary W. Burns is chief operator of the station (May 74).



W 3 V B M A 3 V B M

WILLARD J. PRENTICE TIMONIUM, MD.





Above: When Willard equipped his 1909 Model T Ford for mobile operation, he may have had the oldest mobile rig in the country.

Left: Willard at home QTH, 1970.

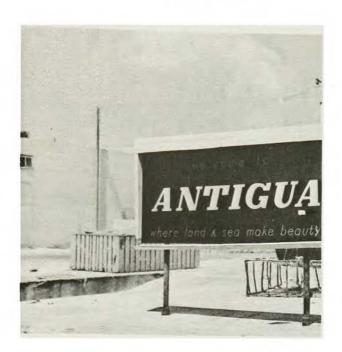


Above: Willard's '56 Ford Ranch Wagon was equipped with a 60-watt Gonset Commander II Transmitter, Pierson KE-93 receiver, and a Webster Band Spanner antenna.



Left: In 1967 Willard took his Drake TR-4 transceiver to the French island of St. Pierre, where he was licensed as FP8DG.

W3VBM (cont'd)



In 1969 the Prentices spent their vacation on the island of Antigua in the Caribbean.



Shown here with XYL Agnes, Willard is operating Bill Wyre's station VP2AZ at the Beachcomber Hotel.

K₃VQO

AA3VQO

JOSEPH I. HEMLER CATONSVILLE, MARYLAND



Joe has been a licensed amateur since 1963 and member of S.E.N. since 1970. His Swan 350 transceiver doubles as a base station and a mobile rig. One of his ham activities has been participation in the county-hunters' net. He received his award for having communicated with 500 counties and is now working towards 1,000.

Joe is a registered professional engineer in Maryland and is Assistant Chief of the Project Planning Branch of the Baltimore District Office of the Corps of Engineers.



Joe's QSL card is sought by many other county hunters throughout the country.

K 4 U S A MARS COMMAND STATION THE PENTAGON, ARLINGTON, VA.



Located in the Pentagon Building in Arlington, Virginia, K4USA has been seen by many who visit this hub of U. S. military activity.

TAB C

LICENSES AND CERTIFICATES

Coline of the Chief Signal Officer Washington, D. C.

DIVISION ENLINEER
NORTH ATLANT'S DIVISION

SECURICY AND CALL SECH ASSESSMENTS FOR HON-TACTICAL RADIO OF TRATEON

TO STRATE TO THE LANGE OF THE L

-	4	Station,	Your,	Pennsylvenia,	Flood	Control	System.
صعه					1000		
				1.77	Tatle	sion	Complete
4					Name of Street, or other Designation of the Owner, where the Parket of the Owner, where the Owner, which is the Ow	Name of the last o	The second second

			mission	Communication Points
	38540 po	0.48 hr	10, 11	Indian Book Dam Control Station
	39540 les	0.46 lar	10, A1	Indian Book Dan Control Station
	39540 lbs	0.4E. hr	10, 11	Indian Rock Dam Control Station
<u>.</u>				

WIIB - Coderes Crock, near York, Pennsylvania

WIIC - Coderes Creek at Spring Grove, Pennsylvania

WID - South Breach, Codorns Crock, near York, Pennsylvania

STATUS OF ASSIGNMENTS

- being caused to services which this office deems to have prior operating rights. Any objectionable interference which is caused or observed should be referred to the Chief Signal Officer.
 - B. As indicated in A, except that operation is not authorise until this office is notified, before operation, of the date on which operations are to be initiated, and of the latitude and longitude at which the transmitting antenna is located.
- 2. Duration. A. I Regular operation is authorized until the assignments are rescinded. The District's first radio authoriza-

tion, No. 11, dated 7 July 1941, was for three automatic water-level reporting stations in the York, Pennsylvania, area.

3. Service. Operation must be in general conformance with all rules and regulations which apply to the class of service involved.

Frequencies: A) 32540 Service: A) Fixed (Water level re-

cording)

4. Special.

421

For the Chief Signal Officer.

M8 Frush

W. T. Guest, Marjor, Signal Corps.

Authorization No.: 11
Enclosed with: 9th Ind. to C. of Engrs.

Endesed With: 9th Ind. to C. of Engrs. C. (5-2-41)

dated July 7, 1941. file OCSigO 676.3 Engr. C. (5-2-41)

C-1

CONDITIONS OF ASSIGNMENT

1. THE LOWEST ASSIGNED FREQUENTY AND MINIMUM POWER CONSISTANT WITH A EQUATE SERVICE SHOULD BE USED AT ALL TIMES. OPERATION IS AUTHORIZED SUBJECT TO CAUSING NO INTER ERENCE TO SERVICES WITH PRIOR RIGHTS. ANY NARMFUL INTERFERENCE CAUSED OR OBSERVED SHOULD BE REFERRED TO THE CRIEF SIGNAL OFFICES.

2. THE CHIEF SIGNAL OFFICE? (SIGOL) SHOULD BE NOTIFIED, IN ADVANCE WHEN . . SSIBLE, OF THE INITIAL BATE OF OPERATION /ND OF THE LATITUDE AND LONGITUDE OF THE RANSMITTING ANTENNA.

3. OPERATION MUST BE IN BEHERAL CONFORMANCE WITH ALL RULES AND REGULATIONS THICH APPLY TO THE CLASS OF SERVICE INVOLVED. STATIONS OPERATING WITH TACTICAL STATIONS ON SPECIAL FREQUENCIES DESIGNATED BY COMPETENT AUTHOLITY SHOULD EMPLOY TACTICAL CALL SIGNS AS DESIGNATED BY THE SAME AUTHORITY.

THIS AUTHORIZ'TION SHOULD BE POSTED AT THE STATION, OPERATION HA' DE CONTINUED UNTIL THESE 'SSIGNMENTS ARE REVISED OR RESCINDED.

BY ORDER OF THE CHIEF SIGNAL OFFICER:

C. W. JANES

Lt. Colonel, Signal Corps Chief, Communication Liaison Branch

CHIEF SIGNAL	AFFICED !	91881 MARKINGTON SE S. S.	AUTHORIZATION 4386
L SIGN ASSIGN	MENTS FOR	NON-TACTICAL RADIO STATIONS	DATE 19 January 1948
NGINEERS, I	NDIAN R	OCK DAM, PENNSYLVANIA	AETB
MAX. POWER	EMISSION	COMMUNICATION POINTS	SERVICE
10 watts	Voice	Engineer Corps and Amateur Stations of the Susquehanna Emergency Net	Emergency during flood conditions.
		Also issued in Janua Also Indian Rock Dan the Indiantion.	1948 was
	L SIGN ASSIGNAL (L SIGN ASSIGNAL) ANGINEERS, I	CHIEF SIGNAL OFFICER (L SIGN ASSIGNMENTS FOR INGINEERS, INDIAN RO MAX. POWER EMISSION	10 watts Voice Engineer Corps and Amateur Stations of the Susquehanna Emergency Net

SPERATION MUST BE IN GENERAL CONFORMANCE WITH ALL RULES AND REGULATIONS WHICH APPLY TO THE CLASS OF SERVICE INVOLVED. STATIONS OPERATING WITH TACTICAL STATIONS ON SICCIAL PREQUENCIES DESIGNATED BY COMPETENT ANTHORITY SHOULD EMPLOY TACTICAL CALL SIGHS AS DESIGN TED BY THE SAME ANTHORITY. . THIS AUTHORIZATION SHOULD BE POSTED AT THE STATION. OPERATION MAY BE CONTINUED

THE LOWEST ASSIGN'S FREQUENCY AND MINIMUM POWER CONSISTANT TITH ADEQUATE SERVICE SHOULD BE USED AT ALL TIMES. OPERATION IS ANTHORIZED SUBJECT TO CANSING NO INTERFERENCE TO SERVICES WITH PRIOR RIGOTS. ABY MARN'UL INTERFERENCE CAUSED OR OBSERVED SHOULD BE REFLIRED TO THE CHIEF SIGNAL OFFICER.

COMDITIONS OF

BY ORDER OF THE CHIEF SIGNAL OFFICER:

VATIL TRESE ASSISSMENTS ARE REVISED OR RESCIRDED.

Owners.

C. W. JANES Lt Colonel, Signal Corps Chief, Communication Liaison Branch

C-3

2. THE CHIEF SIGNAL OFFIC.R (SIGOL) SHOULD BE NOTIFIED, IN DVANCE WHEN POSSIBLE, OF THE INITIAL DATE OF OPERATION AND OF THE LATITUDE AND LONGIT BE OF THE TRANSMITTING ANTENNA.

3. OPERATION MUST BE '4 GENERAL CONFORMANCE WITH ALL RULES AND REGULATIONS WHICH APPLY TO THE CLASS OF SERVICE INVOLVED. STATIONS OPERATING WITH TACTICAL STATIONS ON SPECIAL FREQUENCIES DESIGNATED

BY COMPETENT AUT'ORITY SHOULD EMPLOY TACTICAL CALL SIGNS A. DESIGNATED BY THE SAME AUTHORITY.

THIS AUTHORIZATION SHOULD BE POSTED AT THE STATION. PERATION MAY BE CONTINUED UNTIL THESE ASSIGNMENTS ARE REVISED OR RESCINDED.

PY ORDER OF THE CHIEF SIGNAL OFFICER:

C. W. JANES
It. Colonel, Signal Corps
Chief Commission

Chief, Communication Liaison Branch

CONDITIONS OF ASSIMMENT

1. THE LOWEST ASSIGNED FREQUEPCY AND MINIMUM POWER CONSITTANT WITH ADEQUATE SERVICE SHOULD BE USED AT ALL TIMES. OPERATION IS AUTHORIZED SUBJECT TO CAU. ING NO INTERFERENCE TO SERVICES WITH PRIOR RIGHTS. ABY HARMFUL INTERFFRENCE CAUSED OR OBSERVED SHOULD E REFERRED TO THE CHIEF SIGNAL OFFICER.

office of The Chief Signal Officer (SIGOL) Washington, D. C.

SMIP RADIO AUTHORIZATION NO. 4429

DATE: 16 March 1948

Name of station: HARMICE

Call Sign:

AEGA

Frequencies (kc): Type of emission: Communication points:
(Assignments indicated by XX)

___4255, #510, 12765 & 17020; A1; Army ship P coastal stations.

2350: Al or A3; Fmgr. Corps Stations and other stations authorized to use this frequency.

1 2670; A3: Emergency to Coast Guard Stations.

4220; A3; Fmergency to aircraft.

The District's survey and inspection boats were given radio authorizations at the same time the Fort McHenry

station was authorized.

____4495; A3; Emergency to AACS stations at the same time the Fort McHenry

Regular ship telephone Exercises frequencies allocated by the FCC or set up under international agreement may be used in accordance with national and international rules and regulations.

Other:

<u>Power:</u> The normal power output of the transmitter equipment provided may be used; however when practicable it should be reduced to the minimum required for satisfactory communication. Frequencies 2350, 2670, 4220, and 4495 kc should normally be used with low power equipment.

Conditions of assignment;

- a. Operation as indicated above is authorized subject to no interference to services which the Chief Signal Officer deems to have prior operating rights.
- b. Operation may be continued in accordance with this authorization and existing regulations until assignments are rescinded.
- c. When a call sign assigned to a ship is no longer required the Chief Signal Officer should be notified. In cases involving the transfer of the ship to another agency the Chief Signal Officer should be notified by radiogram or telegram giving the effective date of such transfer.
- d. Operation should conform with generally recognized rules and regulations which apply to the mobile (ship) service. Ships operating in tactical nets should employ tactical call signs when using special tactical net frequencies.

BY ORDER OF THE CHIEF SIGNAL OFFICER:

C. W. JANES

Lt. Golonel, Signal Corps Chisf, Communication

Idaison Branch

Justil

C - 5

180 FO RM 5.

such ups rapid on lest sperific

BEPARTMENT OF THE ABOV

OFFICE OF THE CHIEF SIGNAL OFFICER (SIGNE), MASHINGTON 25, A.C.

MINOCE 494

MYE 5 Hay 1949

ABIL

HADE OF STATION

U. S. ENGINEERS, BALTIMORE DISTRICT OFFICE, BALTIMORE, MARYLAND CALL SIGN

	FREQUENCIES (kc)	HAX. POWER	BH 33104	COMMUNICATION POINTS	Me,ICE
	2350	100 watte	Voice	Engineer Corps Stations	Constal and Bargeney Point-to-Point
	5437.5	100 watts	Voice	Engineer Corps Stations and Amsteur Stations of the Emergency Net	Coastal and Emergency Point-to-Point
	Use of 400 watts	s in emerge			229
		1		atio	n, original call
				The District Office station The District of issued a light on the William to Will are the changed to will are the changed to will are the change of the cha	oug. I kep
				The District Office station of the May 1 authorization on to WIR authorization of the State of t	
		1	COND	ITIONS OF ASSIGNMENT	
-					

THE LOWEST ASSIGNED FREQUENCY AND MINIMUM POWER CONSISTANT WITH ADEQUATE SERVICE SHOULD BE USED AT ALL TIMES. OPERATION IS AUTHORIZED SUBJECT TO CAUSING NO INTERFERENCE TO SERVICES WITH PRIOR RIGHTS. ANY MARMFUL INTERFERENCE CAUSED OR OBSERVED SHOULD BE REFERRED TO THE CHIEF SIGNAL OFFICER.

2. THE CHIEF SIGNAL OFFICER (SIGOL) SHOULD BE NOTIFIED, IN ADVANCE WHEN POSSIBLE, OF THE INITIAL DATE OF OPERATION AND OF THE LATITUDE AND LONGITUDE OF THE TRANSMITTING ANTENNA.

5. OPERATION MUST BE IN GENERAL CONFORMANCE WITH ALL RULES AND REGULATIONS WHICH APPLY TO THE CLASS OF SERVICE INVOLVED. STATIONS OPERATING WITH TACTICAL STATIONS ON SPECIAL FREQUENCIES DESIGNATED BY COMPETENT AUTHORITY SMOULD EMPLOY TACTICAL CALL SIGNS AS DESIGNATED BY THE SAME AUTHORITY.

THIS AUTHORIZATION SHOULD BE POSTED AT THE STATION. OPERATION WAY BE CONTINUED UNTIL THESE ASSIGNMENTS ARE REVISED OR RESCHIBED.

PY ONE I IN THE BLOSLINGY OF THE AMIN'S

3. B. AKIN Lajor General Chief Signal Officer

C. N. JAMES Lt. Col., Signal Cor-Chief, Communication Liaison Branch

C-6

NADS (14 Jun 50)

2nd and

SUFJOT: Hall ign Assignments of fortable, for ile and schicular madio Communication macilities

Office, Division on ineer, North Atlantic division, Norps of an ineers, New York , . V., 12 July 19:0

To: The District Engineer, Paltimore District, Corps of Mainners, Baltimore 3, Nd.

Tursment to instructions from the lifice, Chief of Ingineers detect 19 for 19 0 radio call signs with 470 and will 471 are cancelled and the following new call signs are assigned herewith for use in your office:

"171-2790 and 17" 2791

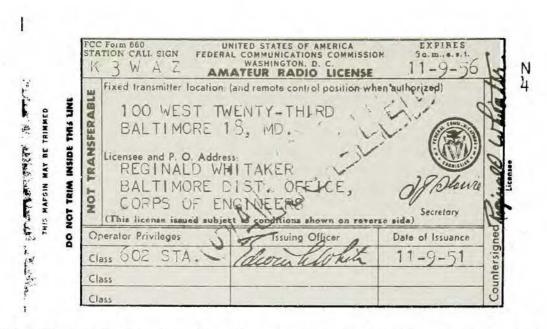
THE DITISION OF THE DITISION OF ICTORS.

Lt Colonel, Corps of Engineers
Acting Assistant ivision ngineer (Admin.)

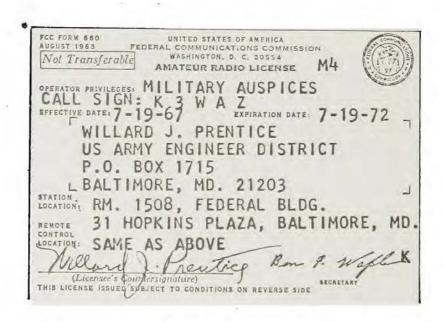
The District's first portable starions

The Di

JAT



The first FCC license issued for the District Office station, K3WAZ



The first FCC license issued to the District Office station after the office and station were moved to the George H. Fallon Federal Building

DEPARTMENT OF THE ARMY OFFICE OF THE CHIEF SIGNAL OFFICER WASHINGTON 25, D. C.

RADIO FREQUENCY AUTHORIZATION

CALL SIGN

Corps of Engir	neers, Baltimo	re Distri	ct Office, Baltimore Md.	WUB - 4
THER IZATION NO.	354 Revised			28 February 1957
FREQUENC!ES	MAXIMUM FOWER	EMISSION	RECEIVING POINTS	SERVICE
350 Kc	100 watts	6A3	Corps of Engineers stations	Coastal and Emergency Fixed
437.5 Kc	100 watts	6A3	Corps of Engineers stations and Amateur stations of the Emergen Net	Coastal and Emergency Fixed cy
163.425 Mc	50 watts	36F3	Corps of Engineers stations	Fixed and mobile

CONDITIONS OF ASSIGNMENT

- IN OPERATION M 5" CONFORM TO THE REGULATIONS APPLYING TO THE CLASS OF SERVICE INVOLVED.
- 2. MINIMUM POWER CONSISTENT WITH ADEQUATE SERVICE SHOULD BE USED AT ALL TIMES.

FOR THE CHIEF SIGNAL OFFICER:

HOLLIMAN

Lt. Colonel, Signal Corps

Chief, Communication Liaison

Branch

In 1957 the authorization was frequency.

In 1957 the fice station WAF frequency

District of fice a wide-band with the include a wide-band with the wide-band with the include a wide-band with the include a wide-band with the wide-band with the wide-band with the wide-band wit

C-9

DISPLAY IN STATION

199 FORM

INE OF STATION

Military Amateur Radio System STATION CERTIFICATE







THIS IS TO CERTIFY THAT AMATEUR RADIO STATION

K 3 V A Z

IS AN OFFICIAL MARS STATION AND IS ASSIGNED THE MARS CALL SIGN A A 3 W A Z THE LICENSEE

BALTIMORE DISTRICT OFFICE OF ENGINEERS HAS AGREED TO OPERATE HIS STATION IN ACCORDANCE WITH INSTRUCTIONS OF THE CHIEFS MARS, AND IN ACCORDANCE WITH THE RULES AND REGULATIONS PRESCRIBED BY THE FEDERAL COMMUNICATIONS COMMISSION.

THIS CERTIFICATE SHALL REMAIN VALID FOR A PERIOD OF THREE YEARS FROM DATE OF ISSUANCE OR LAST INDORSEMENT, UNLESS SOONER MODIFIED OR REVOKED FOR CAUSE.

ISSUED AT WASHINGTON, D. C., THIS 29TH DAY OF

JANUARY ,19 52.

INDORSEMENTS:

The American Radio Relay League, Inc. COMMUNICATIONS DEPARTMENT

WEST HARTFORD, CONN., U.S.A.

This is to Certify that....

WILLARD J. PRENTICE

Amateur Radio Station K3"AZ

has been issued this

Public Service Award

in consideration of meritorious work in connection with ... The Montheastorn Floods (August 1965)

as recounted on page 11 of December 1955 RST

This certificate is presented to the individual amateur named above in recognition of his contribution to the public service record of the Radio Amateur. It is a spontaneous recognition of outstanding work by individual amateurs during communications emergencies, made without hope or expectation of material reward.

Dated July 1, 1956

J. F. Handy
A.R.R.L. Communications Manager

An amateur network with which the District Office station cooperates during emergencies in Maryland is the MEPN (Maryland Emergency Phone Net).

TAB D-1

LOCATIONS OF DISTRICT RADIO STATIONS

- Aberdeen-Edgewood Resident Ofc, Maryland WUB432, WUM5454, WUM7624
- Almond Lake, Hornell, New York WUB47, AD20UD
- Baltimore District Office, Maryland
 George H. Fallon Federal Building, Executive Ofc., Engineering Div., Radio Room
 WUB4, AA3WAZ, WUM3800, 3801, 3802, 3803, 3810, 3811, 7643 thru 7648
 W. R. Grace Building, Operations Division
 WUB4 Remote, WUM6150
- Baltimore metropolitan area, Maryland WUM2790, 7611, 7614, 7617
- Bloomington Lake, Maryland & West Virginia WUB436, WUM7472, 7476 thru 7483
- (Alvin R.) Bush Dam, Renovo, Pennsylvania WUB44, AD3ABF
- Carlisle Barracks, Pennsylvania WUB40
- Catonsville, Maryland WUM7611, AA3VQO
- Chesapeake Bay Model, Matapeake, Maryland WUB431
- Curwensville Lake, Curwensville, Pennsylvania WUB400, AD3DZA
- Dover AFB, Delaware WUB406, WUM5451, 5453
- East Sidney Lake, Unadilla, New York WUB48, AD20UB
- Edgewood see Aberdeen-Edgewood
- Fort Belvoir, Virginia WUB614, WUM3818, 3819, 3820, 3821
- Fort Knox, Kentucky WUB612, WUM6135 thru 6144
- Ft. McHenry, Maryland WUB41, AEHE, AEKL, AEKW, AEWW, AEWO, WUM6145 thru 6149, 7509
- Fort George G. Meade, Maryland Area Office WUB405, WUM5244, 5245, 5246, 5247, 5248, 5249, 5250, 5452, 5455 Emergency trailer WUM7615, AA3USA

1.33

Ft. Myer, Virginia WUB615, WUM3822, 3824

Harrisburg, Pennsylvania WUB435

Harry Diamond Laboratory, Adelphi, Maryland WUM433, WUM6110

Indian Rock Dam, York, Pennsylvania WUB42, AA3WDB

Matapeake, Maryland - see Chesapeake Bay Model

Pikesville, Maryland WUM7614, WN3UGV

Raystown Dam, Huntingdon, Pennsylvania WUB430, WUM3812

Raystown Lake, Huntingdon, Pennsylvania WUB434, WUM8100 thru 8109

Savage River Dam, Swanton, Maryland WUB402, AD3ABE

(Foster Joseph) Sayers Dam, Beech Creek, Pennsylvania WUB404, AD3KUO

(George B.) Stevenson Dam, Austin, Pennsylvania WUB403, AA3WCZ

Stillwater Lake, Forest City, Pennsylvania WUB43, AA30UA

Tioga-Hammond Lakes, Pennsylvania WUB438, WUM8026 thru 8032

Washington, D.C.

Dalecarlia Reservoir (Washington Aqueduct)

WUB423, KGA596, WUM7485 thru 7508, 7612, 7613, 7616, 7618, 7619, 7620

Forrestal Bldg (OCE)

WUB421, WUM6109, 6125 thru 6130, 6151, 6152

McMillan Reservoir

WUB401

Navy Yard Dock

WUB422, AEIT, AELZ, AENB

Wellsburg, New York WUM7649, AL2WRB

Whitney Point, New York
Maintenance Office
WUB45, WUM3823
Whitney Point Lake

Wilkes-Barre, Pennsylvania WUB437, 8025

Wright-Patterson Air Force Base, Dayton, Ohio WUB613, WUM7625 thru 7630, 7640, 7641, 7642

TAB D-2

ROSTER OF DISTRICT RADIO STATIONS

				RADIO CAL	L SIGNS & FRE	QUENCY ASSIGNM	ENTS IN NAB			
Output	Location Emission		& ID	Make ies or chan	Model nels	Serial	Purchase	d Book	Cost	Funds
Station Fone	Custodia		Home Fone			perators	Home Fon	e		
AEHE 60-watt	Ft. McHenry FM	Patrol Boat 163.4375MI	Wicomico	Motorola	Motrac	GE678S	Oct 70	230207	\$1,737	Rev
25-watt 301-962-4080	FM David E.	СН 6, 10,	12, 13, 1	Comco 14, 16, 17, 7081	610A 18A, 22A, 26 Wilbur	7018-230 , 28, WX E. Dunham	Nov 72	578158	\$ 596	Rev
		0.000								
AEIT 60-watt	Wash Navy Yd FM	Debris Boat 163.4375M		Motorola	Motrac	GE677S	Oct 70	236060	\$1,737	Rev
	FM Harold E	CH 6, 10,	12, 13, 1	Comco 14, 16, 17,	610A 18A, 22A, 26	, 28, WX	Nov 72	578157	\$ 596	Rev
117-340-2132	narora E	Kiine	301-80/-2	1987	Dennis :	steen				
AEKL 60-watt	Ft. McHenry FM	P.B. Nanti 163,4375M		Motorola	Motrac	GE674S	Oct 70	230207	\$1,737	Rev
					RAY-42		Mar 72	230212	\$ 585	Rev
25-watt 301-962-4080	FM Robert J				A, 26, 28, WX Frank A.		301-255-4	575		
AEKW 60-watt	Ft. McHenry FM			Motorola	Motrac		Oct 70	230207	\$1,737	Rev
	FM		14, 16, 1		A, 26, 28, WX			230212	\$ 585	Rev
301-962-4080	B. S. (Bud)	Lowery	301-4//-1	3992	Horace I	E. Hall 301-68	35-2420, Wood	row Lande	s 008-3002	4
AELZ 60-watt	Wash Navy Yd FM	Debris Boat 163.4375M		Motorola		GE675S	Oct 70	236060	\$1,737	Rev
25-watt	FM	CH 6 10	12 13 3	Comco	610A 18A, 22A, 26,	7015-200	Nov 72	578157	\$ 596	Rev
117-546-2132	Francis	E. Hart	703-521-1	1458	James J.	Coley	202-584-5	097		
AENB				Motorola	Motrac	GE681S	Oct 70	236060	\$1,737	Rev
60-watt		163.4375M		Comco		7015-195	Nov 72	578157	\$ 596	Rev
25-watt 117-546-2132	FM James H				18A, 22A, 26, Kenneth		301-752-2	289		
AEUW				Motorola	Motrac	GE670S	Oct 70	230207	\$1,737	Rev
60-watt		163.4375M			RAY-42	244030	Mar 72	230212	\$ 585	Rev
25-watt 301-962-4080	FM James A				A, 26, 28, WX David E.		301-766-7	081		

Call Signs	Location	Туре	& ID	Make	Mode1	Serial	Purchased	Book	Cost	Funds
Output	Emission			cies or chan			44.77.4.77			
Station Fone	Custodia	n	Home For	ne	Other (Operators	Home Fone			
	Ft. McHenry	Boat		Comeo	610A	7018-232	Nov 72	578158	\$ 596	Rev
25-watt	FM				18A, 22A, 2					
301-962-4080	Out of s	ervice (rad	io stored	d at Distric	t Ofc radio	room)				
EWO	Ft. McHenry	Patrol Boat	Choptank	Motorola	Motrac	GE661S	Oct 70	230207	\$1,737	Rev
60-watt	FM	163.4375M	Hz		N. C.	200		enabed.	V. DV6	
25-watt 301-962-4080	FM Alvin G.		12, 13, 301-268-		610A 18A, 22A, 20	7018-281 6, 28, WX	Nov 72	578158	\$ 596	Rev
	UB423, WUM7618									
	7-15-1	,								
JUB4, AA3WAZ	Federal Bldg SSB			CAI	CA-27B/10	6539	May 73		\$6,521	Rev
400-watt	990	2300, 233	0, 2360,	SBA 4020,	SBA-312	5015, 5400, A-1007	Jul 73		\$2,358	Rev
150-watt	SSB	2300. 234	0. 2360.				5015, 5400, 543	7.5kHz	42,330	ALC V
			D. Berry		B73MPY3100	GU812W	Oct 70	236340	\$3,472	Rev
60-watt	FM	150.4650M	Hz		p7350V3130	OWDZ DV	× . 70	000011	0/ 70/	
60-watt	FM	163.4375,	164 150		B73MPY3130	GU81 3W	Oct 70	236341	\$4,794	Rev
00-wall	rn .	103.4373,	104.150		RT834/GRC	3594	Aug 72		Transfer	
400-watt	SSB	Continuou	s tuning	2 to 30MHz				16.25244		
202	con	10 15 0		Drake	TR-4	23992	Feb 67	119562	\$ 819	Rev
300-watt 301-962-4886	Cathy La	Prentice 3 Fon 242-13	01-252-62 95, Stan1		mler 744-269 i 485-1196,		Charles 301-68 ems 301-249-68			owitz 655-9331, 821-7832,
UB4 Remote 500-watt	Grace Bldg Ba	lto Fixe	d	CAI 5015, 5400,	409A	4030A	Jul 66	231495	\$25,000	Rev
JOO-WALL	23.0		Car and Car	Motorola			Oct 70		\$1,025	Rev
60-watt	FM	163.4375M		6570		T1	201 766 2	115		
301-962-3674	Jim Rebi	nson	301-788-	-6570	Kobert	Edwards	301-766-2	245		
UB40	Carlisle	Fixe	d	SBA	SBA-301-MS	356	Jun 74		\$1,475	Rev
100-watt 717-245-4443	SSB Amos P.			5015, 5400, -9464	5437.5kHz					
ЛUВ41	Ft. McHenry	Fixe		CAI 5015, 5400,	409A	4030A	Jul 66		(cost incl	in WUB4 Remote)
500-watt	SSB	2350, 402	0, 4025,		C5 3MHB-3116	GU803W	Oct 70	230226	\$4,427	Rev
60-watt 301-962-4080	FM (Navigation),	163.4375M -4044 (F&M	Hz), Edward	i F. Kerns	301-761-8467	, Robert H. C	oale 301-838-4	729		
TUB42, AA3WDB	Indian Rock D	am Fixe	d	CAI	CA-27B	5912	Apr 72	236064	\$3,302	Rev
100-watt	SSB	2300, 235	0, 2360,			5015, 5400,		A 534. 24.	\$1,553	Proj
100-watt	SSB	2350, 402	0, 4025,	5015, 5400,	5437.5kHz				10.0	
717-792-0312		L. Kirkpatr			Thomas	R. Hanlin 3	01-342-4193, Rol	ert E.	Harris 717-8	845-2334

			KADIU CAL	L SIGNS & FR	EQUENCY ASSI	GNMENTS IN NAB (cont'd)		
Call Signs Output Station Fore	Emission	Type & ID Receiving frequency	Make cies or chan	Model nels	Serial	Purchased	Book	Cost	Funds
Station rone	Custodian	Home For	ne	Other	Operators	Home Fone			
WUB43,AA3OUA 100-watt	Stillwater Lake SSB	Fixed 2300, 2350, 2360,	CAI 3245, 4020,	CA-27B 4025, 4030.	5908 5015, 5400,	Apr 72 5437.5kHz	236062	\$3,302	Proj
100-watt	SSB	2300, 2350, 2360,	Scientific 4020, 4025,	SR-210 4030, 4035.	5015. 5400.	Aug 74		\$2,331	Proj
717-679-2381	Anthony S.	Mancuso 717-282-	-5108	Paul A	. Ferchek	717-785-3	739		
WUB44,AD3ABF	Alvin R. Bush D	am Fixed	CAI	CA-27B	5915	Apr 72	236065	\$3,302	Proj
		2300, 2350, 2360,	Scientific	SR-210		Aug 74		\$2,331	Proj
100-watt 717-923-1800	John J. Ko	2300, 2350, 2360, cian	4020, 4025,	4030, 4035, Charles	5015, 5400, s E. Hall	5437.5kHz 717-923-19			
WUB45	Whitney Pt Main	t Fixed	CAI	CA-27B	5995	Apr 72	236069	\$6,435	Rev
500-watt		2300, 2350, 2360,	SRA	SRA-301M	368	5437.5kHz Jun 73		\$1,972	APF
100-watt 607-692-3915	SSB ,3950 Francis J.	2350, 4020, 4025, Hogan 607-692-	5015, 5400, -3605	5437.5kHz Edward	S. Potoczak	607-692-36	31		
WUB46,AD2OUC	Whitney Pt Lake	Fixed	CAI	CA-27B	5909	Apr 72	236070	\$3,302	Proj
100-watt	SSB	2300, 2350, 2360,	3245, 4020, Scientific	4025, 4030, SR-210	5015, 5400,	5437.5kHz		\$2,331	Proj
100-watt 607-692-3165	SSB Mathew (Mi	2300, 2350, 2360, ickey) Eggleston	4020, 4025,	4030, 4035,	5015, 5400, H. Hurlbut	5437.5kHz			
WUB47,AD20UD	Almond Lake	Fixed	CAI	CA-27B	5917	Apr 72	236071	\$3,302	Proj
100-watt	SSB	Fixed 2300, 2350, 2360,	3245, 4020, Scientific	4025, 4030, SR-210	5015, 5400,	5437.5kHz Aug 74		\$2,331	Proj
100-watt 607-324-6531	SSB Henry G. V	2300, 2350, 2360, Wuest	4020, 4025,	4030, 4035, Carl L.	5015, 5400, Poyer	5437.5kHz 607-295-77	37		
				A 43	24.2	1,000,000			
WUB48,AD2OUB 100-watt	SSB Sidney Lak	ke Fixed 2300, 2350, 2360,	3245, 4020,	4025, 4030,	5015, 5400,	5437.5kHz		4 44	Proj
100-watt	SSB	2300, 2350, 2360,	Scientific 4020, 4025,	4030, 4035,	5015, 5400,	5437.5kHz		\$2,331	Proj
607-369-3491	John C. Mc	cKown		Harvey	E. Forkey	607-829-51	34		
	Curwensville La		CAI	CA-27B	5914		236068	\$3,302	Proj
100-watt	SSB		Scientific	SR-210		Aug 74		\$2,331	Proj
100-watt 814-236-2000	SSB Francis (I	2300, 2350, 2360, Frank) Maruschak	4020, 4025,		5015, 5400, I. Berkebile	5437.5kHz			
WUB401,61A	McMillan Res	Base sta 150.725MHz	Motorola	FMT RU80D	NSN	Dec 49	503843		WAQ
30-watt 117-254-4034				S. D. I	Blackmon	301-424-88	07		125,75920
									TAB

	Call Signs Output	Emission	Receiv	ing freq	uencies or	chan	nels				k Cost	Funds
	Station Fone	Custodia	an	Home	Fone	4.000	Other Op	erators	Home	Fone		
	WUB402,AD3ABE	Savage River	Dam F	ixed	CAI	4020	CA-27B 4025, 4030, 5	5916	Apr	72 2300	379 \$3,302	SRO
	630.0				SBA		SBA-301-MS	363	Jun	73	\$1,972	SRO
	301-359-0361	SSB Harry B	2350, dittinger,	4020, 40 Ray Pla	25, 5015, tter 301-	5400, -245-2	5437.5kHz 161 George R	eeves	301-	359-9503		
	WUB403, AA3WCZ						CA-27B	5913		72 2360	066 \$3,302	SRO
	100-watt				SBA		4025, 4030, 5 SBA-301-MS	015, 5400, 361		73	\$1,972	SRO
	100-watt 814-647-8401	SSB Herbert C. Fo	2350, 4 ox, Malco	4020, 40 lm Kitch	25, 5015, en 814-	5400, 546-2	5437.5kHz 661 Richard C			eld, Edwar	rd Bennett	
	WUB404,AD3KUO	F. J. Sayers SSB	Dam F:	ixed 2350 40	Moto 25 5015	(CAI)	SA-706A 5437 5kHz	5657	Oct (69 2314	98 \$2,884	Proj
					SBA		SBA-301M	357	Jun	73	\$1,972	Proj
	717-962-2500	SSB Bert M.	Smith	4020, 40	25, 5015,	5400,	Harold W	. Probst	717-	962-2500		
	WUB405 60-watt FM 301-677-4263	Ft. Meade 163 LTC Chas	3.4375MHz				C53MHB3116SP	GU802W	Oct :	70 2302	225 \$4,191	Rev
	WUB406						C73MHB3100E	LA800E	Oct :	72	\$1,675	APF
	110-watt 302-674-4633	FM Ronald I	163.433 Blackwell	75MHz								
	WUB421 120-watt	Forrestal Blo	lg OCE Ba	ase sta	Moto	rola	B73MPY3100SP	GU809W	Oct	70 2315	\$2,812	Rev
	120-watt		163.43			rola	B73MPB3130BSP	GU806W	Oct	70 2315	501 \$4,443	Rev
	117-693-7111	Ronald H	Bynum Rm (GB250 8	89-9109		Wm T. Di	xon	Ofc 117-0	0X3-7111		
	WUB421Remote 120-watt 117-0X3-7072	FM	163.437		Moto	rola	T1 362SP		Oct 7	70	\$2,531	Rev
	WUB422 120-watt 117-546-2132	FM	163.43	75MHz		rola	L43MHB3190MSP	GU801W	Oct 3	70	\$1,791	Rev
	WUB423,50A	Dalecarlia	В								81 \$1,395	WAQ
	KGA596 Aqua Co				Moto	rola	FSTRU140BR(A)	2 1016	Dec 4	9 5781	70 \$1,185	WAQ
6.	60-watt FM 117-282-2731	Radio S	hop Rich				-282-2763, hom				202-291-6749	

TAB D-2, Page 4

				1000000 000		Market Contraction			
Call Signs Output	Location Emission	Type Receiving	& ID	Make	Model	Serial	Purchased Book	Cost	Funds
Station Fone	Custodian		Home For	ne e		Operators	Home Fone		
WUB423,51A 60-watt	Dalecarlia FM	Fixed 150,725MHz	remote	Motorola	PA8270F	1090	Dec 49	\$212	WAQ
117-282-2709	Pumping s	tation			Flemi	ng Ashton	202-537-0610		
WUB423,52A 60-watt	Dalecarlia FM	Fixed	remote	Motorola	T-1200A	G30629	Sep 64	\$180	WAQ
	Maintenan				Lawren	nce Simi	202-EM3-0571		
KGA596 Aqua Control	Dalecarlia			Motorola	T-1200A	G30629	Sep 64	\$180	WAQ
60-watt 117-282-2763	AAA	158.130MHz ce Ofc			Lawren	nce Simi	202-EM3-0571		
WUB423,53A	The second second second second			Motorola	PA8270F	1093	Dec 49	\$212	WAQ
60-watt 117-282-2725	FM Administr	150.725MHz ative Ofc			Thomas	G. Coultas	301-434-5163		
WUB423,54A 60-watt	Dalecarlia FM	Fixed		Motorola	PA8270F	1094	Dec 49	\$212	WAQ
	Equip. Di				James	Bradshaw	202-529-7608		
WUB423,55A 60-watt	Dalecarlia FM	Fixed					Dec 49	\$170	WAQ
	Police Ho	lqts			Capt.	A. S. Sesock	301-864-3437		
WUB423,59A 60-watt	Dalecarlia FM			Motorola	PA8270A		Dec 49	\$150	WAQ
	Automoti				S. S.	Mattia	301-588-5087		
WUB423,80A 60-watt	Dalecarlia FM	Fixed		Motorola	PA8270F	1092	Dec 49	\$212	WAQ
	l Operation				с. с.	Peterson	703-573-0808		
WUB430 Constr 100-watt	Raystown Lake	Fixed	1 4025		SBA-301 , 5437.5kHz	359	Jun 73	\$1,972	APF
					Compa	FA057E	Jun 69 231358	\$1,862	Proj
60-watt 814-643-3660	FM John H.	163.4125MF Rodgers		-3190	Gladys	Grubb	814-643-4801		

Call Signs Output		Type & ID	Make	Model	Serial	Purcha	sed Book	Cost	Funds
Station Fone	Custodian	Receiving frequen Home Fo	ne or chan	Other O	perators	Home F	one		
	Raystown Dam SSB	Fixed	CAI			May 73		\$2,800	Proj
100-watt		2350, 4020, 4025,	SBA	SBA-301-MS	365	May 73		\$1,628	Proj
			GE GE	FM56LBU66	4092532	Apr 74		\$ 876	Proj
35-watt 814-643-2930		163.4375MHz n L. Burge 814-64	3-5151	Donald	A. Amman	814-64	3-5137		
WUB431 120-watt	Matapeake FM	Base sta 163.4375MHz	Motorola						
	Edgewood FM , 52, 57 Harol	Base sta 163.4375MHz d S. Collinson	Motorola	C73RTB3196		Oct 74		\$6,144	MIL
WUB433 60-watt 117-439-7740	FM	Lab Base sta 163,4375MHz alhoun 301-933		L53BBB3190AM	SP3 LT5204	Feb 73		\$1,717	MIL
WUB434 90-watt	Raystown Lake FM	Fixed 163.4375MHz	GE	DT76KDU66	4092527	Apr 74		\$1,493	Proj
90-watt 814-658-3405		164.150MHz Bell 814-643	GE -2540	DT76UAU66	4092526	Apr 74		\$1,726	Proj
WUB435 100-watt 717-782-3488	Harrisburg SSB Myron W.	Fixed 2350, 4020, 4025, (Mike) Gwinner 71	CAI 5015, 5400, 7-737-2159	CA-27B 5437.5kHz O. D. W	6543 hite	Apr 73		\$2,761	APF
WUB436 100-watt	Bloomington Lal	ke Fixed 2300, 2360,	3245, 4020,	CA-27B 4025, 4030,	5015, 5400,	5437.5kHz		1.50	Proj
		163.4375MHz		DM76KAU66					Proj
301-359-0211	Silvia Gu	thrie 301-786-	-4342	Shiriey	Green 304-	700-0079, DEI	inis morgan	301-729-1	.934
WUB437 60-watt	Wilkes-Barre FM	Fixed portable 163.4375MHz							
100-watt 717-825-3411	SSB Betty Jan	2350, 4020, 4025, e Tokach 717-824	5015, 5400,	SBA-301-MS 5437.5kHz Norman				\$1,475 Rogalla 71	
WUB438 100-watt	Tioga SSB	Fixed 2350, 4020, 4025,	ENTE ELOO	E/ 27 ELD-				\$2,761	Proj
90-watt	FM	163.4375MHz	GE	DT76KAU66				\$1,670	
717-835-5277	Betty J.	Olson 717-638-2567	3	Mrs. Sus	san Connolly	, Eugene L. 1	AcDaniel 71	7-724-1462	

					L SIGNS & FREQ	UENCY ASSIGNM	ENTS IN NAB	(cont'd)		
Call Signs Output	Location Emission	Type Receiving	& ID	Make tes or chan	Model	Serial	Purchase	ed Book	Cost	Funds
Station Fone	Custodian		Home Fone	e	Other Op	erators	Home For	ne		
WUB612 50-watt	Fort Knox FM	Base 163.4375M	sta	GE	4ET21A2	AL9741	Nov 69	578147		MIL
502-624-6354	Martha E.	Bailey	502-937-8	8836	Dorothy	C. Goodman	502-524-	-5536		
WUB613 50-watt	Wright-Patt FM	Base	sta	GE	4ER25D2	AL9740	61	578143	\$ 574	MIL
513-255-2505	James H.	Blanchar	513-253-5	5315	Bill Web	ь	513-372-	-6665		
WUB614 60-watt	Ft. Belvoir	Base	sta	Motorola	C53MHB3116R	LT5194	Feb 73		\$5,405	MIL
117-664-2555	FM Ira E. Re	163.4375ME ed	703-971-5	5630	Mrs. Jea	n P. Medlin	Morgan F	ink		
WUB615 60-watt	Fort Myer	Base	sta	Motorola	L53BBB3190BM	МТ 507Н	May 73		\$1,717	MIL
117-697-6198	Maj. Chas	163.4375MF . W. Sollid	lz lay 703-7	781-9080	Donna Sm	ith				
WUM2790	Balto Co. CD			Motorola	H23-10	н4917	MARS EQUI	IPMENT		
100-watt	FM SSB Willard J	2350, 4020	Hall 0, 4025, 5	5015, 5400,	SBT-100 5437.5kHz	3004-E	MARS EQUI	PMENT		
WUM2791 1-watt 301-252-6287	Balto Co. CD FM Willard J	163.4375M	Hz		Н23-10	н4918	MARS EQUI	PMENT		
WUM3800	Balto Dist Ofc	Sedar 163_4375M	CE10095	Motorola	U73MHT3190BSP	7 GE668S	Oct 70	230208	\$1,706	Rev
301-962-4545	Col. Robe	rt S. McGar	rry 997-2	2354	John Gran	nt	301-HA6-3	921		
WUM3801	Balto Dist Ofc	Sedar	n CA0411	Motorola	U73MHT3190BSP	7 GE679S	Oct 70	230208	\$1,706	Rev
	LTC Roger			-9097	Leo Kerri	igan	301-TU9-4	036		
WUM3802 60-watt	Balto Dist Ofc	Sedar 163.4375M	n CE8838	Motorola	T73RTN3190A	LG417	Nov 72	578156	\$1,359	APF
	LTC Graha			-8491	Howard Jo	ohnson	301-433-6	547		
WUM3803 100-watt		Sedar 2350, 4020	n CE5736 0, 4025, 5	5015, 5400,	SBA-301-MS 5437.5kHz		Jun 73		\$1,972	APF
60-watt	FM	163.4375M	1-	Motorola	T73RTN3190A	LG414M	Nov. 72	578156	\$1,359	APF

Call Signs Output	Emission	Type & ID Receiving frequenci	es or chan	nels		Purchased		Cost	Funds
Station Fone	Custodian	Home Fone		Other Open	rators	Home Fone			
WUM3810 100-watt	Balto Dist Ofc	Wagon CE10099 2350, 4020, 4025, 5	Scientific	SR-206 5437.5kHz	D-2743	Jun 74		\$2,482	Rev
100 1100		2330, 4020, 4023, 5	Motorola	U73MHT3190BSP7	GE680S	Oct 70	230208	\$1,706	Rev
60-watt 301-962-4886	FM Isaac Feig	2350, 4020, 4025, 5 163.4375MHz ges 301-484-1	562						
WUM3811	Balto Dist Ofc	Sedan CA0410	Motorola	U73MHT3190BSP7	GE666X	Oct 70	230208	\$1,706	Rev
60-watt	FM	163.4375MHz		Net statistical services.	351116	(SEC 42)	261510	G. 187.73	
301-962-2022	Michael J.	Lawrence 301-674-2	336						
WUM3812	The second secon	Wagon CE10098			176	Mar 72	503846	\$1,556	APF
100-watt 814-643-3660	SSB	2350, 4020, 4025, 5 inter 814-658-3962	015, 5400,	5437.5kHz					
WUM3814	Raystown Lake	Portable	GE	Voice Cmdr	7110020	Apr 67	578168	\$ 496	Rev
1-watt	FM	163.4125MHz (out	of service	e)					
814-643-3660	LeRoy Heap	os 717-923-0	802 Week	ends					
WUM3815	Raystown Lake FM	Portable	GE	Voice Cmdr	7110021	Apr 67	578168	\$ 496	Rev
814-643-3660	Martin L.	Hartswick 814-542-4	785						
WUM3816	Wilkes-Barre	Portable	Motorola	HT-220	GJ456Y	May 70	230074	\$ 884	Rev
		163.4375MHz (1-tone)							
717-825-3411	Tom Lawson	717-287-1	769						
WUM3817	Wilkes-Barre	Portable 163.4375MHz(1-tone)	Motorola	HT-220	GJ457Y	Jun 70	230074	\$ 884	Rev
5-watt 717-825-3411	Office poo	103.4373MRz(1-cone)							
111 323 3111	arcase ka		\$					54	
		Sedan 01E11671	Motorola	T73RTN3190	LG416M	Nov 72		\$1,359	APF
60-watt		163.4375MHz ed 703-971-5	630						
117-004-1331	IIa E. Ree	103 371 3	030						
WUM3819	Ft. Belvoir	Sedan CB1327 163.4375MHz	Motorola	T73RTN3190	MG004H	May 73		\$1,359	MIL
117-664-2555		edlund 703-494-2	330						
	n. n.t.	C-1 C12227	Matawal s	T730TN3100	мдоозн	May 73		61 250	MITT
	Ft. Belvoir	Sedan CA2227 163.4375MHz	MOLOTOIA	17381113130	1300311	Hay /3		\$1,359	MIL
117-664-2555	Howard R.	Matson 703-971-6	892						

		MADIO CA	CE STUMS & LKC	MODUCE NEETHAN	DENTS IN NAB (CORE U)		
Call Signs Output	Location Type Emission Receiving	& ID Make	Model	Serial	Purchased Book	Cost	Funds
Station Fone	Custodian	Home Fone	Other C	perators	Home Fone		
ou-watt	Ft. Belvoir Wagon FM 163.4375MH R. W. Frantz	Z	i T73RTN3190	MG00211	May 73	\$1,359	MIL
WUM3822 60-watt 117-697-6198	Fort Myer Sedan FM 163,4375MH Maj. Chas. W. Sollid	CB1329 Motorola z ay 703-781-9080	T73RTN3190	MC:005II	May 73	\$1,359	MIL
100-watt	Whitney Pt Maint Wagon SSB 2350, 4025 Edward J. Potoczak	, 5015, 5437.5 kHz	SBA-301M	362	Jun 73	\$1,972	APF
WUM3824 60-watt	Fort Myer Sedan FM 163,4375MH	CA2228 Motorola	T73RTN3190	мс006н	May 73	\$1,359	MIL,
117-697-6198	Andrew Monje, Jr.	703-532-4271	Richard	H. Hillman	703-920-4166		
1-watt	Raystown Lake Porta FM 163.4125MH John M. Hunter	z	Voice Cmdr	4270052	Jul 64 578168	\$ 513	Rev
1-watt	Raystown Lake Porta FM 163.4125MH John H. Rodgers	Z	Voice Cmdr	4270053	Jul 64 578168	\$ 513	Rev
1-watt	Indian Rock Dam Porta FM 163.4125MH Dam Operators		Voice Cmdr	4270054	Jul 64 578169	\$ 513	Rev
1-watt	Indian Rock Dam Porta FM 163.4125MH Dam Operators	ble GE z	Voice Cmdr	4270055	Jul 64 578169	\$ 513	Rev
1-watt	Alvin R. Bush Dam Porta FM 163.4125MH Dam Operators		Voice Cmdr	4380882	Sep 64 116410	\$ 480	Rev
1-watt	Alvin R. Bush Dam Porta FM 163.4125MH Dam Operators	ble GE z	Voice Cmdr	4380883	Sep 64 116410	\$ 480	Rev
WUM4492 1-watt 814-643-3660	Raystown Lake Porta FM 163.4125MH James P. Thornton	ble GE z 814-643-4766	Voice Cmdr	4380884	Sep 64 578168	\$ 480	Rev

Call Signs Output	Location Prission Pr	Type & ID	Make	Model	Serial	Purchased 1	Book	Cost	Funds
Station Fone	Custodian	Home Fone	es or chair	Other Ope	rators	Home Fone			
1-watt	Raystown Lake FM 10 Office pool	53.4125MHz	GE	Voice Cmdr	4380885	Sep 64	578168	\$ 480	Rev
1-watt	Almond Lake FM 10 Dam Operator		GE	Voice Cmdr	6080285	Mar 66	578167	\$ 486	Rev
	Almond Lake FM 16 Dam Operator		GE	Voice Cmdr	6080286	Mar 66 5	578167	\$ 486	Rev
WUM4496 1-watt 814-236-2000	Curwensville Lake FM 16 Dam Operator	3.4125MHz	GE	Voice Cmdr	6080287	Mar 66 5	578164	\$ 486	Rev
WUM4497 1-watt 814-236-2000	Curwensville Lake FM 16 Dam Operator	3.4125MHz	GE	Voice Cmdr	6080288	Mar 66 5	578164	\$ 486	Rev
The state of the s		Sedan 01E09771	Motorola	U73MHT3190BSP7	GE055S	Oct 70 2	230085	\$1,706	Rev
100-watt	SSB 2:	350, 4025, 5015, 5 Brylla 301-672-3		SBA-301 5kHz	360	Jun 73		\$1,972	MIL
60-watt	FM 16	Sedan CE1321 53.4375MHz ane 301-464-2		U73MHT3190BSP7	GE057S	Oct 70 2	230085	\$1,706	Rev
60-watt	FM 16	Sedan 01H67871 33.4375MHz ght 301-635-2		U73MHT3190BSP7	GE671S	Oct 70 2	230085	\$1,706	Rev
		3.4375MHz		U73MHT3190BSP7	GE676S	Oct 70 2	230085	\$1,706	Rev
60-watt	FM 16	Sedan 01C75269 53.4375MHz Genega 301-647-3		U73MHT3190BSP7	HU083V	Oct 70 2	30085	\$1,706	Rev

Call Signs Output	Location	Type & ID Receiving frequenc	Make	Mode1	Serial	Purchase	d Book	Cost	Funds
Station Fone	Custodia	n Home Fon	e or char	Other Op	erators	Home For	ie		
M715249 60-witt 301-677-4261	Ft, Meado FN Office p	Sedan 0106816 163,4375MHz ool	9 Motorola	U73MIT3190BSP	7 GE665S	Oct 70	230085	\$1,706	Rev
60-watt	FM	Sedan 01C6826 163.4375MHz Bosma 474-9456			LH732E	Oct 72	578150	\$1,133	Rev
WUM5451 60-watt 302-674-4633	Dover FM Office p	Sedan 01F1747 163.4375MHz oo1	l Motorola	T73RTN3100A	LH731E	Oct 72		\$1,133	APF
60-watt	Ft. Meade FM Office p	(out of servi 163.4375MHz ool	ce) Motor	cola T73RTN310	DA LH735E	Oct 72	578150	\$1,133	APF
	Dover FM Office p	Sedan CB1335 163.4375MHz	Motorola	T73RTN3100A	LH736E	Oct 72		\$1,133	APF
WUM5454 60-watt 301-671-2450	FM	(out of servi-	ce) Motoro	la T73RTN3100/	A LH734E	Oct 72	578150	\$1,133	APF
WUM5455 60-watt 301-677-3909		(out of service 163.4375MHz	ce) Motoro	la T73RTN3100/	LH733E	Oct 72	578150	\$1,133	APF
1.5-watt	Dalecarlia AM Radio Sh	Portable 27.575MHz nop	Johnson	Pers Msgr	45209	Oct 64	230095	\$ 173	WAQ
	AM	Portable 27.575MHz nop	Johnson	Pers Msgr	45210	Oct 64	230095	\$ 173	WAQ
1.5-watt	AM		Johnson	Pers Msgr	50877	Oct 64	230095	\$ 121	WAQ

	Call Signs Output	Location Emission	Type & ID Receiving frequ	Make encies or chan	Model nels	Serial	Purchase	d Book	Co	ost	Funds	
Station Fone Custodian			Home	Fone	Other O	perators	Home Fon	e				
	WUM5718 1.5-watt 117-282-2731	Dalecarlia AM Radio Sho	Portable 27.575MHz P	Johnson	Pers Msgr	50878	Oct 64	230095	\$	121	WAQ	
	1.5-watt	Dalecarlia AM Radio Sho	27.575MHz	Amphenol	C-75G	471	Jun 65	230096	\$	89	WAQ	
	1.5-watt	Dalecarlia AM Radio Sho	27.575MHz	Ampheno1	C-75G	472	Jun 65	230096	\$	89	WAQ	
	1-watt	FM	Portable 163.4125MHz Davis 814-6		Voice Cmdr	7110023	Apr 67	D18118	\$	496	Rev	
			Portable 163.4125MHz Fox 814-6		Voice Cmdr	7110022	Apr 67	D18118	\$	496	Rev	
	1-watt	Ft. McHenry AM Woodrow La		Hallicrafters	C-18G	749003	Dec 67	230211	\$	98	Rev	
	1-watt	Ft. McHenry AM Woodrow La	Portable 27.575MHz andes	Hallicrafters	C-18G	749004	Dec 67	230211	\$	98	Rev	
	1-watt	Balto Dist Ofc AM Survey See		Hallicrafters	C-18G	749008	Dec 67	230211	\$	98	Rev	
	1-watt	Balto Dist Ofc AM Survey Se		Hallicrafters	C-18G	749009	Dec 67	230211	\$	98	Rev	

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Output	Location Emission	Type & ID Receiving frequencies	es or char		Serial	Purchase	d Book	Cost	Funds
Station Fone	Custodian	Home Fone		Ot	her Operators	Home For	ie		
60-watt	Wash-OCE FM Forrestal	Sedan 1111 163.4375MHz (Has Bldg GB-250			GE052S scrambler)	Oct 70	236058	\$2,670	Rev
60-watt		ab Sedan OIG86170 163.4375MHz	Motorola	Motrac	CE669S	Oct 70	230207	\$1,737	Rev
4.5-watt	F. J. Sayers Da FM Dam Operat	163.4375MHz	GE	PR-36	2412195	Nov 72	578166	\$ 944	Proj
WUM6124 4.5-watt 717-962-2500	F. J. Sayers Da FM Dam Opera	163.4375MHz	GE	PR-36	2412196	Nov 72	578166	\$ 944	Proj
WUM6125,201 60-watt 117-693-7111	Wash-OCE FM Forrestal	163.4375MHz (Has	Motorola rear hand		GE053S scrambler)	Oct 70	236058	\$2,670	Rev
WUM6126,205 60-watt 117-693-7111	Wash-OCE FM Forrestal	Sedan CE8091 163.4375MHz Bldg GB-250	Motorola	U73MHT	GE7635	Oct 70	236059	\$1,835	Rev
WUM6127,209 60-watt 117-693-7111	Wash-OCE FM Forrestal				HUO39W scrambler)	Oct 70	236059	\$1,835	Rev
WUM6128,203 60-watt 117-693-7111	Wash-OCE FM Forrestal	Sedan CE1936 163.4375MHz Bldg GE-250	Motorola	U73MHT	GE056S	Oct 70	236059	\$1,835	Rev
WUM6129,207 60-watt 117-693-7111	Wash-OCE FM Forrestal	Sedan CE8092 163.4375MHz Bldg GB-250	Motorola	U73MHT	HU040W	Oct 70	236059	\$1,835	Rev
WUM6130,208 60-watt 117-693-7111	Wash-OCE FM Forrestal	Sedan 1196 163,4375MHz Bldg GB-250	Motorola	U73MHT	GE054S	Oct 70	236059	\$1,835	Rev

Call Signs Output	Location Emission	Type & ID Receiving frequenci	Make es or char	Model nnels	Serial	Purchase	d Book	Co	st	Funds
Station Fone	Custodian	1 Home Fone		Other	Operators	Home Fon	e			
WUM6135 25-watt		Carryall 01N81470 163.4375MHz				Nov 69	578148	\$	410	MIL
WUM6136	Unassigned									
WUM6137 25-watt 502-624-7755	Ft. Knox FM James L.	Sedan CA0756 163.4375MHz Johnson	GE	MT33W	2030646	Nov 69		\$	460	MIL
25-watt	FM	Sedan CA0755 163.4375MHz . Cairns 502-765-4		MT33N6	3480203	Nov 69	578148	\$	487	MIL
25-watt	FM	Sedan 01E11771 163,4375MHz C. Dol1 502-896-0		MT 33W	1280645	Nov 69	578148	\$	480	MIL
		Sedan CA0757 163.4375MHz Jackson 502-769-1		FI33N	AH2928	Nov 69	578148	\$	424	MIL
25-watt	FM	Sedan CB1331 163.4375MHz H. Monarch 502-756-5			A07150	Nov 69	578148	\$	891	MIL
WUM6142 25-watt 502-624-7755	Ft. Knox FM MAJ A. R.	Sedan CB1334 163.4375MHz Janairo 502-351-1	GE 201	MT76FCS66	8430555	Nov 69	578148	\$	815	MIL
		Sedan CB1332 163.4375MHz Grigsby 502-937-7		GS66	8430556	Nov 69	578148	\$	815	MIL
WUM6144 25-watt 502-624-7755	FM	Sedan CB1333 163.4375MHz W. Johnson 502-964-0		MT76FCS66	8430554	Nov 69	578148	\$	815	MIL

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Call Signs Output	Location	Type & ID	Make	Mode1	Serial	Purchased	Book	Cost	Funds
Station Fone	Custodian	Receiving frequenci Home Fone	es or char		erators	Home Fone			
WUM6145 60-watt 301-962-4080	Ft. McHenry FM Robert Wel	Sedan CE4860 163.4375MHz ob 485-4280	Motorola	T73RTN3180	MG001H	May 73		\$1,359	MIL
WUM6146 60-watt 301-962-3674	FM	Sedan CE8770 163.4375MHz 761-8467	Motorola	U73MHT	HU065S	Oct 70	230208	\$1,706	Rev
WUM6147 60-watt 301-962-4080	FM	Truck CE5727 163.4375MHz nic survey party	Motorola	U73MHT	GE662S	Oct 70	230208	\$1,706	Rev
WUM6148 60-watt 301-962-4080	FM	Truck W20948 163.4375MHz hic survey party	Motorola	U73MHT	GE663S	Oct 70	230208	\$1,706	Rev
WUM6149 60-watt 301-962-4080	FM	Sedan CE10059 163.4375MHz o1	Motorola	U73MHT	GE872S	0et 70	230208	\$1,706	Rev
WUM6150 60-watt 301-962-3675	FM	to Sedan CE8834 163.4375MHz . Medeiros 301-682-3		U73MHT3190 SP2	HU066V	Oct 70	230208	\$1,706	Rev
WUM6151,206 60-watt 117-693-7111	FM	Wagon CE8089 163.4375MHz Bldg GB-250	Motorola	U73MHT	GE664S	Oct 70	236059	\$1,835	Rev
WUM6152,204 60-watt 117-693-7111	Wash-OCE FM Forrestal	163.4375MHz	Motorola	U73MHT	GE051S	Oct 70 .	236059	\$1,835	Rev
WIM6153 5-watt 301-962-4886	FM	163.4375MHz(3 tones	Our complete	HT-220	HJ0-300	Oct 70	236061	\$1,455	Rev
WUM6154 5-watt 117-0X3-7072	Wash-OCE FM Forrestal	163.4125, 163.4375M	Motorola Hz	HT-220	M29H8N	Jun 73		\$ 952	Rev

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Output	Emission	Receiving fre	quencies or char	nnels				Cost	Funds
Station Fone	Custodian	Hom	e Fone	Othe	r Operators	Home Fone			
WUM6155 5-watt 301-677-4263	Ft. Meade FM Daniel G.	Portable 163.4375MHz(3 Kane 301	Motorola tones) -464-2134	HT-220	HJO-320	Oct 70	236061	\$1,455	Rev
WUM7461 5-watt 117-0X3-7072	Wash-OCE FM Forrestal	Portable 163.4175, 163 Bldg Rm 4F094	Motorola .4375MHz	HT-220	м29н9N	Jun 73		\$ 952	Rev
WUM7462 5-watt 301-962-4970	FM	163.4375MHz (3	tones)		HJO-340		236061	\$1,455	Rev
301-302-4370	Joseph 1.	Hemiei (Av.	allable to Real	Estate Div	ision during emerger	icies.)			
WUM7463 5-watt 301-962-4885	Balto Dist Ofc FM Willard P	163.4375MHz (3	Motorola tones) -252-6287	HT-220	нј0-350	Oct 70	236061	\$1,455	Rev
WUM7464 5-watt 301-962-4886	Balto Dist Ofc FM Available	Portable 163.4375MHz(1 in radio room	Motorola tone)	HT-220	HJ748R	Oct 70	230074	\$ 884	Rev
5-watt		163.4375MHz(1		HT-220	L13K7L	Jul 72			OEP
5-watt	Wilkes-Barre FM office po	163.4375MHz(1	Motorola tone)	HT-220	HJ750R	Oct 70	230074	\$ 884	Rev
	Wash Navy Yd FM Harry M. 1		Motorola tone) -969-4076	HT-220	HJ751R	Oct 70	230074	\$ 884	Rev
3-watt	Whitney Pt Lake AM Dam opera	27.575MHz	Johnson	204	2048022-16006	Jun 72	578152	\$ 222	Rev
3-Wall	Whitney Pt Lak AM Dam opera	TI. DIDIE	Johnson	204	2048052-39957	Jun 72	578152	\$ 222	Rev

Call Signs Output	Location Type & ID Emission Receiving frequency	Make les or cha	Model	Serial	Purchased Book	Cost	Funds
Station Fone	Custodian Home Fone		Other Op	erators	Home Fone		
	Bloomington Lake Fixed remote FM 163.4375MHz Jerome L. Albright, Jr. 301-		(See WUB436)				
	Bloomington Lake Portable FM 163.4375MHz William Eckert 301-359-8	GE 3571	Porta-mobil	8460727	Dec 68 2360	\$1,177	Rev
WUM7474 8-watt 301-359-0211	Bloomington Lake Portable FM 163.4375MHz Jerome L. Albright, Jr. 301-	GE -729-1351	Porta-mobil	7200024	Jun 67 2360	72 \$1,242	Rev
WUM7475 8-watt 301-359-0211	Bloomington Lake Portable FM 163.4375MHz James Ware 304-788-3190	GE	Porta-mobil	8270275	Jul 68 2360	72 \$1,223	Rev
WUM7476 90-watt 301-359-0211	Bloomington Lake Scout CE8766 FM 163.4375MHz Mitchell Miller 304-788-1		MT 76TAU66	1311073	Oct 71 23021	0 \$ 982	Proj
WUM7477 90-watt 301-359-0211	Bloomington Lake Pickup CE8823 FM 163.4375MHz Bernard D. Tilton 301-387-5		MT76TAU66	1311071	Oct 71 23021	.0 \$ 982	Proj
WUM7478 90-watt 301-359-0211	Bloomington Lake Carryall CE8822 FM 163.4375MHz N. Russell Newman 304-788-0		MT76TAU66	1311068	Oct 71 23021	0 \$ 982	Proj
WUM7479 90-watt 301-359-0211	Bloomington Lake Scout CE8764 FM 163.4375MHz Henry G. Johnson 304-363-6		MT76TAU66	1311069	Oct 71 23021	0 \$ 982	Proj
WUM7480 90-watt 301-359-0211	Bloomington Lake Pickup CE8821 FM 163.4375MHz John Dudiak 301-729-8		MT76TAU66	1311072	Oct 71 23021	0 \$ 982	Proj
WUM7481 90-watt 359-0211	Bloomington Lake Pickup CE8775 FM 163.4375MHz Jerome L. Albright, Jr. 310-		MT76TAU66	1311067	Oct 71 23021	0 \$ 982	Proj

					TOTAL OFFICE OF	our a tundam		San San Libra	1001		
Call Signs Output	Location Emission	Type	& ID	Make		Serial	Purchase	d Book	Co	st	Funds
Station Fone			Home For		Other Op	erators	Home Fon	e			
WUM7482	Bloomington La	ike Wagon	CE5741	Sideband Asc.	SBA301MS	258	Oct 72	578160	\$1	,523	Proj
100-watt				5015, 5400, GE	5437.5kHz MT76TAU68	1311070	Oct 71	230210	\$	982	Proj
90-watt 301-359-0211	FM Robt. W.	163.4375MH Craig	z 301–729	-8856	Howard D	. Gillin	301-359-	9245			
WUM7483 90-watt 301-359-0211	Bloomington La FM Everett K	ke Scout 163.4375MH issinger	z		MT76TAU66	1311074	Oct 71	230210	\$	982	Proj
WUM7485 25-watt 117-282-2731	Dalecarlia FM	Sedan 150.725MHz		Motorola	U43HHT1100C	C-74302	Apr 62	230082	ş	710	WAQ
WUM7486 25-watt 117-282-2731	Dalecarlia FM	Truck 150.725MHz		Motorola	U43HHT1100D	D-50510	Dec 62	230082	\$	811	WAQ
WUM7487 40-watt 117-282-2731	Dalecarlia FM	Sedan 150.725MHz		Motorola	U43HHT1100E	G-58019	Sep 64	230083	\$	732	WAQ
WIM7488 25-watt 117-282-2731	Dalecarlia FM	Truck 150.725MHz		Motorola	U43HHT1100B	C-07611	Jun 61	230082	\$	720	WAQ
WUM7489 40-watt 117-282-2731	Dalecarlia FM	Sedan 150.725MHz		Motorola	U43HHT1100E	G-58018	Sep 64	230083	\$	732	WAQ
WUM7490 40-watt 117-282-2731	Dalecarlia FM	(out 6		ice) Motorol	a U43LHT1100A	I-53913	Apr 66	230084	\$	649	WAQ
WUM7491 40-watt 117-282-2731	Dalecarlia FM	Sedan 150.725MHz		Motorola	U43MHT1100A	CE99C	May 67	230086	\$	649	WAQ
WUM7492 40-watt 117-282-2731		Sedan 150.725MHz	A-57	Motorola	U43MHT1100A	1-82205	Jul 66	230086	\$	649	WAQ

			RADIO CAL	L SIGNS & FREE	QUENCY ASSIGNM	ENTS IN NAB (cont.d)		
Call Signs Output Station Fone	Location Emission Custodian	Type & ID Receiving frequenci	es or chan	Model nels	Serial	Purchased Book	Cost	Funds
Station rone	Custodian	Home Fone		Other Or	perators	Home Fone		
WUM7493 40-watt	Dalecarlia FM	Sedan A-51 150.725MHz	Motorola	U43HHT1100E	н49941	Jun 66 230083	\$ 649	WAQ
No. 174			Motorola	T73RTN3109A	LG-411M	Nov 72 578155	\$1,479	APF
60-watt 117-282-2753	FM Harry C.	163.4375MHz Ways 301-299-7	527					
WUM7494 .	Balto Dist Ofc	Portable	GE	PR-36	4102417	Apr 74	\$ 842	Rev
4.5-watt 301-962-4886	FM Available	163.4375MHz (3-channel in radio room	el transmi	t)		4.00		10.7
					4			
WUM7495	Balto Dist Ofc	Portable	GE	nn 36	(100/10	404.44	6 072	Date
4.5-watt 301-962-4886	FM	163.4375MHz (3-channin radio room		PR-36 t)	4102418	Apr 74	\$ 842	Rev
WUM7496	Dalecarlia	Truck B-90	Motorola	U43HHT1100D	E58598	Nov 63 230082	\$ 700	WAQ
25-watt 117-282-2731	FM	150,725MHz	NO COTOLO	0,13,0112000	2227			
WUM7497	Dalecarlia	Truck B-54	Motorola	U43HHT1100C	C-74304	Apr 62 230082	\$ 710	WAQ
25-watt 117-282-2731	FM	150.725MHz	22.51049					
WUM7498	Dalecarlia	Truck B-88	Motorola	U43HRT1100D	£58597	Nov 63 230082	\$ 700	WAQ
25-watt 117-282-2731	FM	150.725MHz						
WUM7499	Dalecarlia	Truck B-92	Motorola	U43HHT1100D	D-52434	Dec 62 230082	\$ 811	WAQ
25-watt 117-282-2731	FM	150.725MHz						
WUM7500	Dalecarlia	Truck B-84	Motorola	U43LHT1100A	1-53914	Apr 66 230084	\$ 649	WAQ
40-watt 117-282-2731	FM	150.725MHz						
WUM7501	Dalecarlia	Truck B-69	Motorola	U43HHT1100B	C-07612	Jun 61 230082	\$ 720	WAQ
25-watt 117-282-2731	FM	150.725MHz						
WUM 7 502	Dalecarlia	Truck B-89	Motorola	U43HHT1100B	C-74303	Apr 62 230082	\$ 710	WAQ
25-watt 117-282-2731	FM	150.725MHz						
WUM7503	Dalecarlia	Truck B-91	Motorola	U43MHT1100A	1-82204	Jul 66 230082	\$ 649	WAQ
40-watt 117-282-2731	FM .	150.725MHz						15.6

Call Signs Output	Location Emission	Type Receiving	& ID frequenci			Serial	Purchased	Book	Co	st	Funds
Station Fone	Custodian		Home Fone		Other Ope	erators	Home Fone				
WUM7504 40-watt 117-282-2731	Dalecarlia FM	Truck 150.725MHz	B-78	Motorola	и43ннт1100е	н-49940	Jun 65	230083	\$	649	WAQ
WUM7505 25-watt 117-282-2731	Dalecarlia FM	Truck 150.725MHz		Motorola	U43HHT1100D	D-52435	Dec 62	230082	\$	811	WAQ
WUM7506 40-watt 117-282-2731	Dalecarlia FM	Truck 150.725MHz		Motorola	U43HHT1100E	н-49942	Jun 66	230083	\$	649	WAQ
WUM7507 25-watt 117-282-2731	Dalecarlia FM	Truck 150.725MHz		Motorola	U43HHT1100D	E-58599	Nov 63	230082	\$	700	WAQ
WUM7508 40-watt 117-282-2731	Dalecarlia FM	Sedan 150.725MHz	A-52	Motorola	U43MHT1100A	1-82206	Apr 62	230086	\$	649	WAQ
WUM7509 60-watt 301-962-4080	Ft. McHenry FM George Gr	163.4375MH		Motorola 734	U73MHT	HU067S	Oct 70	230208	\$1	,706	Rev
WUM7611,AA3VQO 100-watt 301-962-4970	Catonsville SSB Jos. I. H	2350, 4020	, 4025, 50		9B-2 5437.5kHz	313	MARS EQUIP	PMENT			
WUM7612 25-watt 117-282-2731	Dalecarlia FM	Truck 150.725MHz	C-24		U43HHT1100B	B-43939	Sep 60	230082	\$	795	WAQ
	Sa.	1+to-1		30							
WUM7613 25-watt 117-282-2731	Dalecarlia FM	(out o	of service	e) Motoro	1а U43HHT1100H	B-43940	Sep 60	230082	\$	795	WAQ
WUM7614 WN3UGV 100-watt 301-962-4886	SSB	Fixed- 4020, 4025 e) Feiges	, 5015, 54		9B-2	NSN	MARS EQUIF	PMENT		-3	

				RADIO CAI	L SIGNS & FRE	QUENCY ASSIGNME	ENTS IN NAB	(cont'd)			
	Call Signs Output	Location Emission	Type 6 ID	Make	Mode1	Serial	Purchase	ed Book	C	ost	Funds
	Station Fone	Custodian	Receiving frequence Home Fond			perators	Home For	ne			
	WUM7615,AA3USA 100-watt	Ft. Meade SSB	Trailer 127721		9-B2	NSN	MARS EQ	UIPMENT			
	301-677-6131	or 6132 Robe	rt E. Sheridan, A3RI	EH, 355-599	3 Wm. J.	Miller, A3NST,	465-2036				
	WUM7616 40-watt 117-282-2731	Dalecarlia FM	Truck E-16 150.725MHz	Motorola	U43LHT1100A	T-53912	Apr 66	230084	\$	649	WAQ
	*	192.									
	WUM7617 100-watt	Baltimore FM	Fixed-portable 163.4375MHz	1.00							CD
	301-396-6177,	6183 Thom R.	LaCosta, K3HRN, WA3	BJPD, offic	e 396-4990, h	ome 243-7194, J	oseph Parvi	.5			
	WUM7618,Aqua 2 40-watt	Dalecarlia FN	Truck E-18 150.725MHz	Motorola	U43HHT1100E	G-58017	Sep 64	230083	\$	732	WAQ
	KGA596,Aqua 2 45-watt 117-282-2731	FM	158.130MHz	Motorola	T43RTN1100A	JH273T	Aug 71	230087	ş	850	WAQ
	WUM7619,Aqua 1 40-watt	Dalecarlia FM	Truck E-19 150.725MHz	Motorola	U43MHT1100A	CE98C	May 67	230086	\$	649	WAQ
	KGA596,Aqua 1 45-watt 117-282-2731	FM	158.130MHz	Motorola	T43RTN1100A	JH274T	Aug 71	230087	\$	850	WAQ
	WLM7620 25-watt 117-282-2731	Dalecarlia FM	Truck E-20 150.725MHz	Motorola	U43HHT1100B	в-43941	Jun 66	230082	\$	795	₩AQ
	WUM7621 2-watt 117-282-2731	Dalecarlia FM	Portable 150.725MHz	Motorola	H23DEN1104A	АК753Р	Jul 66	230080	\$	527	WAQ
	WUM7622 2-watt 117-282-2731	Dalecarlia FM	Portable 150.725MHz	Motorola	H23DEN1104A	AK754P	Jul 66	2 300 80	\$	527	WAQ
	WUM7623 2-watt 117-254-4034	McMillan FM	Portable 150.725MHz	Motorola	H23DEN1104A	CJ098G	Jun 67	230080	\$65	58	WAQ
×	WUM7624 60-watt 301-671-2450	Edgewood FM), 52, 57 offic	Sedan 01G86670 163.4375MHz ee pool) Motorola	T73RTN3190A	LG415M	Nov 72	578156	\$1,	,359	APF
	WUM7625 25-watt 513-255-2505	Wright-Patt FM James H.	Sedan CA2229 163.4375, 165.08751 Blanchar 523-5315	GE MHz	MT76TCS66	9451212	Jun 70	578144	\$	919	MIL

Call Signs	Location	Type &	ID Make	Model	Serial	Purchase	d Book	Co	st	Funds
Output Station Fone	Emission	Receiving fre	equencies or me Fone		Operators	Home Fond	2			
WUM7626 25-watt 513-255-2505	Wright-Patt	Sedan 01 163.4375, 165	5.0875MHz	MT76TCS66	9451211	Jun 70	578144	\$	919	MIL
WUM7627 25-watt 513-255-2505	Wright-Patt FM James Eva	163.4375, 165		MT76TCS66	9451213	Jun 70	578144	\$	919	MIL
WUM7628 25-watt 513-255-2505	Wright-Patt FM John Mone	Truck 01 163.4375, 165 smith 513	5.0875MHz	MT33N6	4150288	Jun 70	578144	\$	508	MIL
WUM7629 25-watt 513-255-2505	Wright-Patt FM Gilbert E	163.4375, 165	5.0875MHz	MT33N6	4150289	Jun 70	578144	\$	508	MIL
WUM7630 25-watt 513-255-2505	Wright-Pat FM John Wood	163.4375, 165	5.0875MHz	МТ ЭЗВ	AL9648	Jun 70	578144	\$	410	MIL
WUM7631 5-watt 513-255-2505	Wright-Patt AM Inspector	27.575MHz	e Lafayet	te Dyna-Com	53278	Jun 70	578145	\$	94	MIL
WUM7632 5-watt 513-255-2505		27.575MHz	e Lafayet	te Dyna-Com	53530	Jun 70	578145	\$	94	MIL
WUM7633 5-watt 513-255-2505	Wright-Patt AM Inspector	Portable 27.575MHz s	e Lafayet	te Dyna-Com	53196	Jun 70	578145	\$	94	MIL
WUM7634 5-watt 513-255-2505	Wright-Patt AM Inspector	Portable 27.575MHz s	e Lafayet	te Dyna-Com	52396	Jun 70	578145	\$	94	MIL
WUM7635 5-watt 513-255-2505	Wright-Patt AM Inspector	Portable 27.575MHz s	e Lafayet	te Dyna-Com	53265	Jun 70	578145	\$	94	MIL

					A SERVICE PROPERTY OF THE PROP		ACTOR AND ASSESSMENT		
Call Signs Output	Location Emission	Type & ID Receiving frequenci	Make es or chan	Model nels	Serial	Purchased		Cost	Funds
Station Fone	Custodian	Home Fone		Other (Operators	Home Fone			
WUM7638 1.5-watt 513-255-2505	Wright-Patt AM Inspector	Portable 27.575MHz s	Johnson	Pers Msgr	88115	Jun 70	578146	\$ 114	MIL
1.5-watt	Wright-Patt AM Inspector	Portable 27.575MHz s	Johnson	Pers Msgr	88116	Jun 70	578146	\$ 114	MIL
WUM7640 80-watt 513-255-2505	Wright-Patt FM Herbert L	Sedan CA2233 163.4375, 165.0875M . Neff	GE Hz	MT76TCS66	3500286	Feb 74		\$1,220	MIL
WUM7641 80-watt 513-255-2505	Wright-Patt FM Walter N.	Pickup CB7623 163.4375, 165.0875M Harrison	GE Hz	MT76TCS66	3500285	Feb 74		\$1,220	MIL
80-watt	Wright-Patt FM Lawrence	Pickup 01E7706 163.4375, 165.0875M W. Harkleroad	9 GE Hz	MT76TCS66	3500287	Feb 74		\$1,220	MIL
100-watt	SSB	Sedan CE8839 2350, 4020, 4025, 5 H. Coale 301-838-4	015, 5400,	SBA-301-MS 5437.5kHz	671	Mar 74		\$1,464	Rev
100-watt	SSB	Sedan CE10249 2350, 4020, 4025, 5 lvester Davis 117-	015, 5400,	SBA-301-MS 5437.5kHz	675	Mar 74		\$1,464	Rev
100-watt	SSB	Scout CE10096 2350, 4020, 4025, 5 Rohrer 717-392-5	015, 5400,	SBA-301-MS 5437.5kHz	767	Mar 74		\$1,464	Rev
100-watt	Balto F&M Br SSB , 4044 office	Scout CE8768 2350, 4020, 4025, 5 pool	SBA 015, 5400,	SBA-301-MS 5437.5kHz	672	Mar 74		\$1,464	Rev
WUM7647 100-watt 301-962-2005	SSB	Scout CE8768 2350, 4020, 4025, 5 e Clark 717-HU6-5	015, 5400,	SBA-301-MS 5437.5kHz	672	Mar 74		\$1,464	Rev
100-watt	Balto F&M Br SSB , 4044 Larry C	Scout CE8767 2350, 4020, 4025, 5 Green	SBA 015, 5400,	SBA-301-MS 5437.5kHz		Mar 74		\$1,464	Rev

Call Signs Output	Location Type & ID Emission Receiving freq	Make	Model	Serial	Purchased Book	Cost	Funds
Station Fone	Custodian Home	Fone Fone	Other	Operators	Home Fone		
100-watt	Wellsburg, N.Y. Fixed-por SSB 2300, 2350, 40 Harold Washburn 607-	20, 4025, 5015,		.5kHz	MARS EQUIPMENT		
1.5-watt	Ft. Belvoir Portable AM 27.575MHz Area office	Ampheno1	C75-G	181	62	\$ 112	CIV
1.5-watt	Ft. Belvoir Portable AM 27.575MHz Area office	Ampheno1	C75-G	182	62	\$ 112	CIV
1.5-watt	Ft. Belvoir Portable AM 27.575MHz Area office	Ampheno1	C75-G	183	62	\$ 112	CIV
1.5-watt	Ft. Belvoir Portable AM 27.575MHz Area office	Ampheno1	C75-G	184	62	\$ 112	CIV
1.5-watt	Ft. Belvoir Portable AM 27.575MHz Area office	Ampheno1	C75-G	185	62	\$ 112	CIV
1.5-watt	Ft. Belvoir Portable AM 27.575MHz Area office	Ampheno1	C75-G	186	62	\$ 112	CIV
WIM8013	Bloomington Portable	GE	PR-36	2382320	Oct 72 578153	\$ 944	Proj
4.5-watt 301-359-0211	FM 163.4375MHz Jerome L. Albright, Jr.	301-729-1351	Shirl	ey Alltop 301-35	59-8931, Bernard L. Ti	1ton 301-3	387-5072
4.5-watt	Bloomington Portable FM 163.4375MHz Everett J. Kissinger		PR-36	2382321	Oct 72 578153	\$ 944	Proj
4.5-watt	Bloomington Portable FM 163,4375MHz John Dudiak 301~		PR-36	2382322	Oct 72 578153	\$ 944	Proj

			RADIO CAI	L SIGNS & FR	EQUENCY ASSIGNMEN	IIS IN	NAB	(cont a)			
Call Signs Output	Emission	Type & ID Receiving freque	ncies or char	nels		Pur	chase	d Book	C	Cost	Funds
Station Fone	Custodian	Home I	one	Other	Operators	Ноп	e Fon	e			
WUM8016 4.5-watt	Bloomington FM	Portable	GE			Oct	72	578153	\$	944	Proj
WUM8017 4.5-watt 607-369-3491	East Sidney FM Dam operat	Portable 163.4375MHz tors	G E	PR-36	2382324	0ct	72	578154	\$	944	Proj
4.5-Watt	East Sidney FM Dam operat	163.4375MHz	GE	PR-36	2382325	0ct	72	578154	\$	944	Proj
4.5-watt	Bloomington FM Kenneth R	Portable 163.4375MHz idder, Real Estat	GE e Ofc	PR-36	2382326	Oct	72	578159	\$	944	Proj
4.5-watt	Balto Dist Ofc FM Available	163.4375MHz	GE	PR-36	2382327	0ct	72	578159	\$	944	Proj
3-watt	Balto Dist Ofc AM Survey Se	27.575MHz	Johnson	204	2048022-16005	Jun	72	578151	\$	222	Rev
	Balto Dist Ofc AM Survey Se		Johnson	204	2048052-39958	Jun	72	578151	\$	222	Rev
3-watt	Balto Dist Ofc AM Survey Se	27.575MHz	Johnson	204	204B052-39959	Jun	72	578151	ş	222	Rev
WUM8024 3-watt 301-962-2309	Balto Dist Ofc AM Survey Se	27.575MHz	Johnson	204	2048052-39960	Jun	72	578151	\$	222	Rev
	SSB		24 SBA , 5015, 5400, GE	SBA-301-MS 5437.5kHz MT76TAU66	3240481	Jun Jul		578161		,972 925	APF
		163.4375MHz ogalla 717-83	6-4396								

Emission	Receiving	frequenci	es or char	nels		Purchased	Book	Co	st	Funds
Custodian		Home Fone		Other O	perators	Home Fone				
Tioga SSB	Sedan 2350 4020	CE5737	SBA 15. 5400	5/37 5kua		Mar 72	578161	\$1	,556	APF
				MT76TAU66	3240484	Jul 73		\$	925	APF
			674							
Tioga FM	Sedan	CE10059	GE	MT76TAU66	3240482	Jul 73		\$	925	APF
			-662-3143							
Tioga	Truck	01D90972	SBA	SBA-301-MS		Jun 73	578161	\$1	,972	APF
SSB	2350, 4020	, 4025, 5	015, 5400, GE	5437.5kHz MT76TAU66	3240483	Jul 73		\$	925	APF
		Z		311523011	2010100	150			4.440	
Tioga	Truck	01D91572	GE	MT76TAU66	3240488	Jul 73		\$	925	APF
			801							
Tioga	Truck	01D91172	SBA	SBA-301-MS		Jun 73	578161	\$1	.972	APF
SSB	2350, 4020	, 4025, 5	015, 5400,	5437.5kHz	22/0/05		S. S			
FM	163.4375MH		GE	M1 / 61 AU66	3240483	Jul /3		\$	923	APF
Wm. N. Har	ris	717-835-5	636							
Tioga	Truck	01895571	GE	MT76TAU66	3240486	Jul 73		\$	925	APF
			801							
Tioga	Truck	01B96571	SBA	SBA-301-MS		Jun 73	578161	\$1	.972	APF
SSB	2350, 4020	, 4025, 5	015, 5400,		3240487	11 72			025	APF
0.55		Z		MITOTAGOG	3240407	Jul 73		ą.	923	AFF
			GE	PR-36	3190470	Jun 73		\$	784	APF
Tioga FM	Porta	ble	GE	PR-36	3190471	Jun 73		S	784	APF
	Emission Custodian Tioga SSB FM Joseph Hal Tioga FM George A. Tioga SSB FM Donald Kit Tioga FM Morris M. Tioga SSB FM Wm. N. Har Tioga FM Jerry Vale Tioga SSB FM Lugene L. Tioga FM Eugene L.	Emission	Emission Custodian Receiving frequencial Home Fone Tioga Sedan CE5737 SSB 2350,4020, 4025, 50 FM 163.4375MHz Joseph Hallahan 814-625-2 Tioga Sedan CE10059 FM 163.4375MHz George A. Riscavage, Jr., 717 Tioga Truck 01D90972 SSB 2350, 4020, 4025, 50 FM 163.4375MHz Donald Kitchen 717-836-19 Tioga Truck 01D91572 FM 163.4375MHz Morris M. Snow 717-376-20 Tioga Truck 01D91172 SSB 2350, 4020, 4025, 50 FM 163.4375MHz Wm. N. Harris 717-835-50 Tioga Truck 01B95571 FM 163.4375MHz Jerry Valek 717-376-20 Tioga Truck 01B96571 SSB 2350, 4020, 4025, 50 Tioga Truck 01B96571 Tioga Truck 01B96571 SSB 2350, 4020, 4025, 50 Tioga Truck 01B96571 Tioga Truck 01B96571 SSB 2350, 4020, 4025, 50 Tioga Truck 01B96571	Tioga Sedan CE5737 SBA SSB 2350,4020, 4025, 5015, 5400, GE FM 163.4375MHz Joseph Hallahan 814-625-2674 Tioga Sedan CE10059 GE FM 163.4375MHz George A. Riscavage, Jr., 717-662-3143 Tioga Truck 01D90972 SBA SSB 2350, 4020, 4025, 5015, 5400, GE FM 163.4375MHz Donald Kitchen 717-836-1930 Tioga Truck 01D91572 GE FM 163.4375MHz Morris M. Snow 717-376-2801 Tioga Truck 01D91172 SBA SSB 2350, 4020, 4025, 5015, 5400, GE FM 163.4375MHz Wm. N. Harris 717-835-5636 Tioga Truck 01B95571 GE FM 163.4375MHz Wm. N. 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			RA	DIO CAL	L SIGNS &	FREQUENCY ASSIGNMENT	CS IN	NAB (cont'd)			
Call Signs Output	Location Emission	Туре	& ID Ma	ke	Mode1	Serial	Pur	chased Book	C	Cost	Funds
Station Fone		Receiving	frequencies Home Fone	or chan		er Operators	Hom	e Fone			
WUM8035 4.5-watt 717-835-5277	Tioga FM Tioga-Hamm	Porta 163.4375MH end Lab			PR-36	3190472	Jun	73	4	784	APF
WUM8036 4.5-watt 717-835-5277	Tioga FM Office poo	Porta 163.4375MH			PR-36	3190473	Jun	73	Ş	784	APF
WUM8037 4.5-watt 717-835-5277		Porta 163.4375MH			PR-36	3190474	Jun	73	\$	784	APF
WUM8077 4.5-watt 717-825-3411		163.4375MH			PR-36	3190475	Jun	73	\$	847	APF
WUM8078 4.5-watt 717-825-3411		Porta 163.4375MH arwaski			PR-36	3190476	Jun	73	\$	847	APF
WUM8079 4.5-watt 717-825-3411	Wilkes-Barre FM Chris Find	163.4375MH			PR-36	3190477	Jun	73	\$	847	APF
WUM8080 4.5-watt 301-962-4886		Porta 163.4375MH in radio r	İz		PR-36	3190478	Jun	73	\$	847	APF
WUM8081 4.5-watt 301-962-4886	Balto Dist Ofc FM Available	Porta 163.4375Min radio r	Iz		PR-36	3190479	Jun 1	73	\$	847	AFP
WUM8082 1.5-watt 301-962-4886	Balto Dist Ofc AM Available	Porta 27.575MHz in radio r		hnson	Messenge	204C123-93312	Feb	74	\$	258	Rev
WUM8083 1.5-watt 301-962-4886	Balto Dist Ofc AM Available	Porta 27.575MHz in radio n		hnson	Messenge	204C123-93313	Feb :	74	\$	258	Rev
WUM8084 1.5-watt 717-679-2381	Stillwater Lak AM Anthony S	27.575MHz	able Jo		Messenge	204C123-93314	Feb	74	ş	258	Rev
WUM8085 1.5-watt 717-679-2381	Stillwater Lak AM Anthony S	27.575MHz	able Jo 717-282-5108	hnson	Messenger	204C123-93315	Feb :	74	ş	258	Rev
											Open V W

Call Signs Output	Location	Type & ID Ma	ake	Mode1	Serial	Purchase	d Book	Cost	Funds	
Station Fone	Custodian	Receiving frequencies Home Fone	or cham	neis (Other Operators	Home Fon	e			
4.5-watt	FM	Portable GI 163.4375MHz(3-channel in radio room				Apr 74		\$ 842	Rev	
4.5-watt		Portable GF 163.4375MHz(3-channel in radio room			4102420	Apr 74		\$ 842	Rev	
5-watt		n Portable AS 5015kHz(USB only) tors	SE	MM-2C	000809	Jul 74		\$ 468	APF	
4.5-Watt	FM	Fixed portable GE 163.4375MHz nts Maintenance Bldg	3	PR-36		4102408	Apr 74		\$ 834 P	roj
4.5-watt	Raystown Lake FM Boat oper	Inspection boat # 163.4375MHz ator	†1 GE	PR-36	4102409	Apr 74		\$ 834	Proj	
4.5-watt	Raystown Lake FM Boat oper:	Inspection boat # 163.4375MHz ator	∮2 GE	PR-36	4102410	Apr 74		\$ 834	Proj	
WUM8103 60-watt 814-658-3405	Raystown Lake FM Robert W.	Mc 163.4375MHz Bell 814-643-2540	otorola	Motrac		0ct 70		\$1,737	Rev	
60-watt	Raystown Lake FM Park rang	163.4375MHz	otorola	Motrac	5.	0ct 70		\$1,737	Rev	
WUM8105 60-watt 814-658-3405	Raystown Lake FM Park rang	163.4375MHz ers	otorola	Motrac		Oct 70		\$1,737	Rev	
WUM8106 60-watt 814-658-3405	Raystown Lake FM Park rang	Mo 163.4375MHz ers	otorola	Motrac	•	Oct 70		\$1,737	Rev	

			IOIDIO CAL	T STONE 9	FREQUENCY ASSIGNM	ENTS IN NAB (CORE d)		
Call Signs Output	Location Emission	Type & ID Receiving frequen	Make	Mode1	Serial	Purchased Book	Cost	Funds
Station Fone	Custodian	Home Fo	ne	Oth	ner Operators	Home Fone		
WUM8107 60-watt	Raystown Lake FM Park rang	163-4375MUz	Motorola			Oct 70	\$1,737	Rev
60-watt	Raystown Lake FM Park rang	163.4375MHz ers	Motorola	Motrac		Oct 70	\$1,737	Rev
60-watt	Raystown Lake FM Park rang	163.4375MHz	Motorola	Motrac		Oct 70	\$1,737	Rev
4.5-watt	FM	Portable 163.4375MHz Bell 814-643		PR-36	4102411	Apr 74	\$ 834	Proj
4.5-Watt	Raystown Lake FM Park rang	Portable 163.4375MHz ers	GE	PR-36	4102412	Apr 74	\$ 834	Proj
4.5-watt	Raystown Lake FM Park rang	163.4375MHz	GE	PR-36	4102413	Apr 74	\$ 834	Proj
4.5-watt	Raystown Lake FM Park rang		GE -	PR-36	4102414	Apr 74	\$ 834	Proj
4.5-watt	Raystown Lake FM Park rang	163.4375MHz	GE	PR-36	4102415	Apr 74	\$ 834	Proj
4.5-watt	Raystown Lake FM Park rang		GE	PR-36	4102416	Apr 74	\$ 834	Proj
WUM8116 3-watt 301-962-4080	AM	Portable 27,575MHz	Johnson	109		Aug 74	\$ 172	Rev

Call Signs	Location	Type & ID	Make	Model	Serial	Purchased Book	Cost	Funds
Output Station Fone	Emission Custodian	Receiving freq Home	uencies or char Fone		er Operators	Home Fone		
WUM8117 3-watt 301-962-4080	Ft. McHenry AM	Portable 27.575MHz	Johnson	109		Aug 74	\$ 172	Rev

WUM8118 Unassigned

WUM8119 Unassigned

WUM8120 Unassigned

WUM8121 Unassigned

WUM8122 Unassigned

Explanation of headings.

Book: Refers to serial number of the books used for the electronic equipment environmental survey from 1963 to 1972.

Funds: Equipment is purchased from various funds. Revolving fund (Rev) is used for equipment intended for use at more than one project. Project funds (Proj) are used for equipment purchased for use at a specific project. Funds for Advance Preparations for Flood Emergencies (APF) may be used for portable or mobile equipment intended for emergency use. Military funds (MIL) are normally used for equipment to be used on a military post. In the flood control net a few pieces of equipment were purchased with funds allotted for scheduling reservoir operations (SRO). The Washington Aqueduct Division (WAQ) has funds especially appropriated by Congress for its exclusive use.

TAB E

DISTRICT MAP

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